

**NATIONAL COASTAL ASSESSMENT
2004**

**BENTHIC COMMUNITY CONDITION
IN MARYLAND'S COASTAL BAYS**

Prepared for

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FOREWORD

This document, *National Coastal Assessment 2004: Benthic Community Condition in Maryland's Coastal Bays*, was prepared by Versar, Inc., at the request of Ms. Cathy Wazniak of the Maryland Department of Natural Resources under Cooperative Agreement CA-07-4-30872-3734 between Versar, Inc., and the University of Maryland Center for Environmental and Estuarine Studies. The report assesses the status of benthic communities in the Maryland's coastal bays in support of the United States Environmental Protection Agency's National Coastal Assessment Program.

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1.0 INTRODUCTION

The National Coastal Assessment (NCA) Program, the continuation of the Coastal 2000 Project, is a component of the Environmental Monitoring and Assessment Program (EMAP). The National Coastal Assessment and EMAP are national research programs led by the Environmental Protection Agency's Office of Research and Development (EPA-ORD). The New NCA/EMAP are intended to develop the scientific tools and agency partnerships needed to broadly assess the status and trends of significant ecological systems. The goal of EMAP is to "monitor the condition of the Nation's ecological resources to evaluate the cumulative success of current policies and programs and to identify emerging problems before they become widespread or irreversible."

The Maryland Department of Natural Resources (DNR) has developed a Cooperative Agreement with the Environmental Protection Agency (EPA) to join collaboratively in the National Coastal Assessment Program to assess the coastal waters and estuaries of the United States. As the lead agency for the state of Maryland, DNR conducted a study in August 2004 to assess water quality, sediment quality, and the quality of biological resources in the Maryland's coastal bays. This document presents the results of the benthic portion of the study, an assessment of the condition of the bottom invertebrate community.

2.0 METHODS

2.1 SAMPLE COLLECTION

Benthic samples for NCA 2004 were collected at 55 sites between 4 and 18 August 2004. The first 54 sites were the same sites sampled in August 2000 and 2001. Eighteen sites were National Park Service water quality monitoring sites, 20 were *Pfiesteria* monitoring sites, and 17 were National Coastal Assessment sites (Figure 1). Station designation and location are presented in Table 1. Most of the sampling was conducted aboard the Research Vessel Polgar; however, on the final week of sampling, 8 sites were sampled from land access (wading) and 1 site by jon-boat to reach the more shallow areas of the bays.

The 2004 summer season was effected by severe tropical weather developing in the Atlantic Ocean. From early to mid-August, the eastern seaboard hosted Hurricane Alex, Tropical Storm Bonnie, and Hurricane Charley. Several field-monitoring days were directly effected by inclement weather. The ecological effects of the heightened rainfall and consequent runoff should be considered when analyzing sample data collected during 2004.

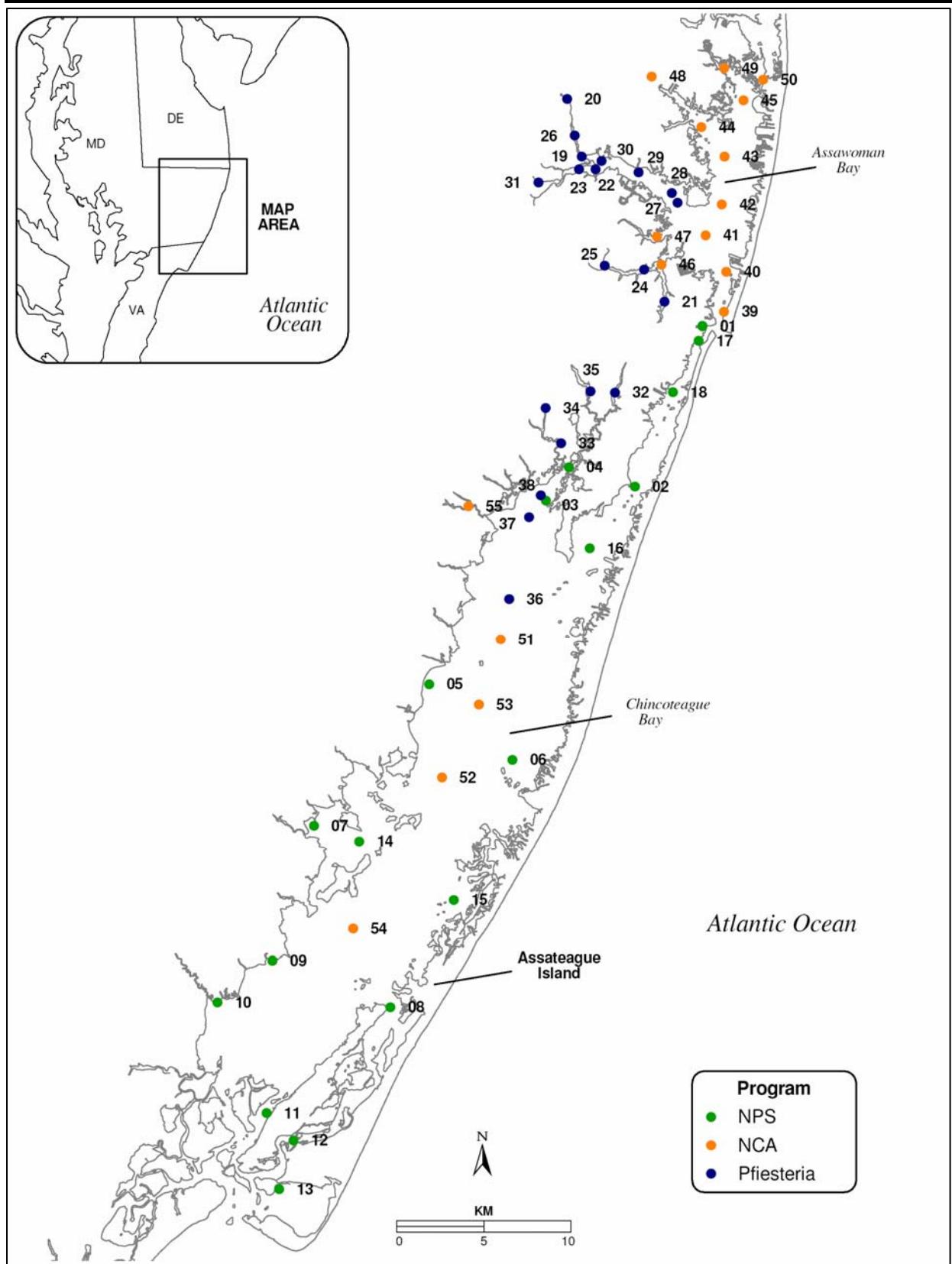


Figure 1. Location of the coastal bays sampling sites for 2004

Standardized methods were used in this project. While the field and laboratory procedures were consistent with the methods used by the NCA partners, an effort was made to obtain data that could be compared with historic and current monitoring efforts in Maryland's estuarine waters.

Benthic samples were collected with a Young Grab, which samples an area of 440 cm² to a depth of 10 cm. One benthic grab sample was collected at each site. In 2000 and 2001, three grab replicates were collected, although only one was processed for benthic macroinvertebrates. Benthic samples were sieved through a 0.5-mm screen using an elutriative process, and the organisms retained on the screen were transferred to labeled jars and preserved in 10% buffered formalin stained with Rose Bengal (a vital stain used to aid separation of organisms from sediment and detritus). One sediment subsample for silt-clay analysis was collected from one additional grab sample from each site, and 10 sediment subsamples for chlorophyll *a* analysis were collected from four additional grab samples from 40 of the 55 sites. For sediment chlorophyll, a small sample (approximately 5 cm²) from the top one centimeter of sediment was collected with a 60 cm³ syringe (2.5 cm diameter), transferred to a centrifuge tube, and kept on wet ice in the dark while on board. Chlorophyll and silt-clay analysis samples were subsequently frozen until processed in the laboratory. After removing the silt-clay and chlorophyll subsamples, a sediment composite was made from the top 2 cm of sediment and subsampled for analysis of sediment contaminants (metals, organics, total organic carbon) and toxicity testing following EPA QA guidelines specified in the NCA Quality Assurance Project Plan. Contaminant and toxicity samples were collected only at sites within the Maryland state boundary (50 sites total).

Water quality measurements included water temperature, conductivity, salinity, dissolved oxygen concentration (DO), pH, Photosynthetically Active Radiation (PAR), chlorophyll *a* concentration, and Secchi depth. The first five parameters were recorded electronically at 0.5 m from the surface and approximately 0.5 m from the bottom using a YSI 6600 Sonde and a 650 data logger. At deep sites, additional measurements were taken at 1 m intervals. PAR was measured immediately below the surface of the water column and every 0.5 m thereafter (including the 1-m mark) using a LI-192SA Underwater Quantum Sensor and a LI-190SA Reference Sensor (LI-COR Corporation, Lincoln, Nebraska). Samples for water-column chlorophyll *a* were collected in duplicate from each site by filtering a 100 ml volume of surface water onto 47-mm diameter GFF filters using a vacuum filtration system. Filters were wrapped in aluminum foil and kept on ice in the dark while on board, and later frozen pending analysis.

2.2 LABORATORY PROCESSING

Benthic organisms were sorted from detritus under dissecting microscopes, identified to the lowest practical taxonomic level, and counted. Oligochaete annelids from high salinity samples were identified to group level only. Anthozoans, nemerteans, and turbellarians were generally identified to group-level.

A voucher collection of rare and taxonomically problematic species initiated with the Coastal 2000 assessment is available upon request. Rare species are those for which there were no specimens, or only one specimen existed, in the permanent reference collections maintained at Versar or Cove Corporation. Taxonomically problematic species are those for which there was insufficient taxonomic information to resolve their classification with certainty.

Sand and silt-clay particles were separated by wet-sieving through a 63 micron stainless steel sieve and weighed using standard procedures described in Plumb (1981) and Buchanan (1984). Chlorophyll *a* analyses were conducted by the Chesapeake Biological Laboratory (CBL) following standard methods described in Strickland and Parsons (1972).

Contaminant and toxicity samples were shipped overnight to EPA Gulf Breeze Laboratory for analysis and comprised 3 shipments: Samples combining 16, 24, and 10 sites were shipped 9, 16 and 23 August, respectively.

2.3 DATA ANALYSIS

Analyses were performed in the context of measures of benthic community condition used in a benthic index of biotic integrity (B-IBI) developed for the U.S. EPA Mid-Atlantic Integrated Assessment (MAIA) Program (Llansó et al. 2002). The MAIA region extends from the Delaware Bay estuary to Pamlico Sound. The MAIA benthic index is a multiple-attribute index designed to identify the degree to which a benthic assemblage deviates from expected reference (non-degraded) conditions. It integrates several benthic community attributes indicative of "health" into a single number that measures overall benthic community condition.

The MAIA benthic index was derived following procedures similar to those used during the development of the Chesapeake Bay B-IBI (Weisberg et al., 1997). Thresholds were established for each of several attributes as the 10th (or 90th, see below) and the 50th percentile values of the distribution of values at reference sites. This was done for each of five salinity habitats. For each attribute, a value from a new sample falling below the 10th percentile threshold (or above the 90th) was considered to deviate strongly from values at reference sites in similar habitats. An upper threshold corresponding to the 90th percentile was used for some attributes (e.g., percent abundance as pollution indicative taxa) because the direction of the response is such that higher percentages are expected in degraded sites than in reference sites. The index was validated using an independent data set. Existing datasets from several federal and state sampling programs and multiple years were used to develop and validate the index. For details see Llansó et al. (2002).

Attributes of benthic community condition used in the MAIA benthic index are the following: abundance (number of individuals per m²), number of taxa, Shannon-Wiener diversity index (calculated with logarithms in base 2), percent dominance (100 minus the percent abundance contributed by the top two numerically dominant taxa), percent abundance as pollution indicative taxa, percent abundance as pollution sensitive taxa,

percent abundance of deep-deposit feeders, percent abundance of Bivalvia, and the percent abundance ratio of Tanypodinae to Chironomidae. Epifaunal organisms, which usually respond differently to pollution than infauna (Ranasinghe et al. 1994), were excluded from the analysis.

One of the measures listed above, abundance, responds bimodally to stress; that is, the response can be greater than at reference sites with moderate degrees of stress, and less than at reference sites with high degrees of stress (Pearson and Rosenberg 1978). For this measure, an upper threshold corresponding to the 90th percentile value at reference sites was established in addition to the lower threshold corresponding to the 10th percentile (Weisberg et al., 1997). Values from samples falling above the upper threshold indicate moderate effects on benthos resulting in excess abundance in relation to organic enrichment. Values from samples falling below the lower threshold indicate depauperate benthic communities symptomatic of prolonged oxygen stress, toxic contamination, or other anthropogenic disturbance.

As with the Chesapeake Bay B-IBI, the MAIA benthic index is scaled from 1 to 5. Sites with values of 3 or more were considered to meet the goal, defined here as the observation of a benthic community that does not differ significantly from the reference (non-degraded) condition. Based on the MAIA benthic index, sites were classified into three levels. Sites with index values less than or equal to 2.0 were classified as severely degraded; sites with index values from 2.1 to 2.9 were classified as moderately degraded; and sites with index values of 3.0 or more were classified as meeting the goal.

3.0 RESULTS

For each of the 55 NCA 2004 sites, MAIA benthic index values are presented in Table 2 and the corresponding benthic community condition is presented in Figure 2. Station specific water quality measurements and sediment composition are provided in Table 3. A complete list of species and their abundance is provided in the Appendix and in electronic format. Site 31 (BIH009) was sampled at Middle Branch in 2004 and 2001. It was sampled at Birch Branch in 2000. Birch Branch was unsampleable in 2004 and 2001 because of a culvert. Site 19 (BIH008) was sampled at Bishopville all three years; the target longitude coordinate points erroneously to an inland location. PAR, Secchi depth, and chlorophyll data were provided in electronic format separately from this report.

The data presented in Table 2 include two modifications introduced with the 2003 report. First, percent dominance is expressed as the percent abundance contributed by the top two numerically dominant taxa (rather than 100 minus this value). Second, the abundances of *Mediomastus* spp. and *Mediomastus ambiseta* are combined for metric and index calculations, since a majority of the *Mediomastus* individuals in the coastal bays of Maryland belong to the latter species. *Limnodrilus hoffmeisteri* and the Tubificidae immature without capilliform chaeta in Site 20 are likewise combined for metric and index calculations.

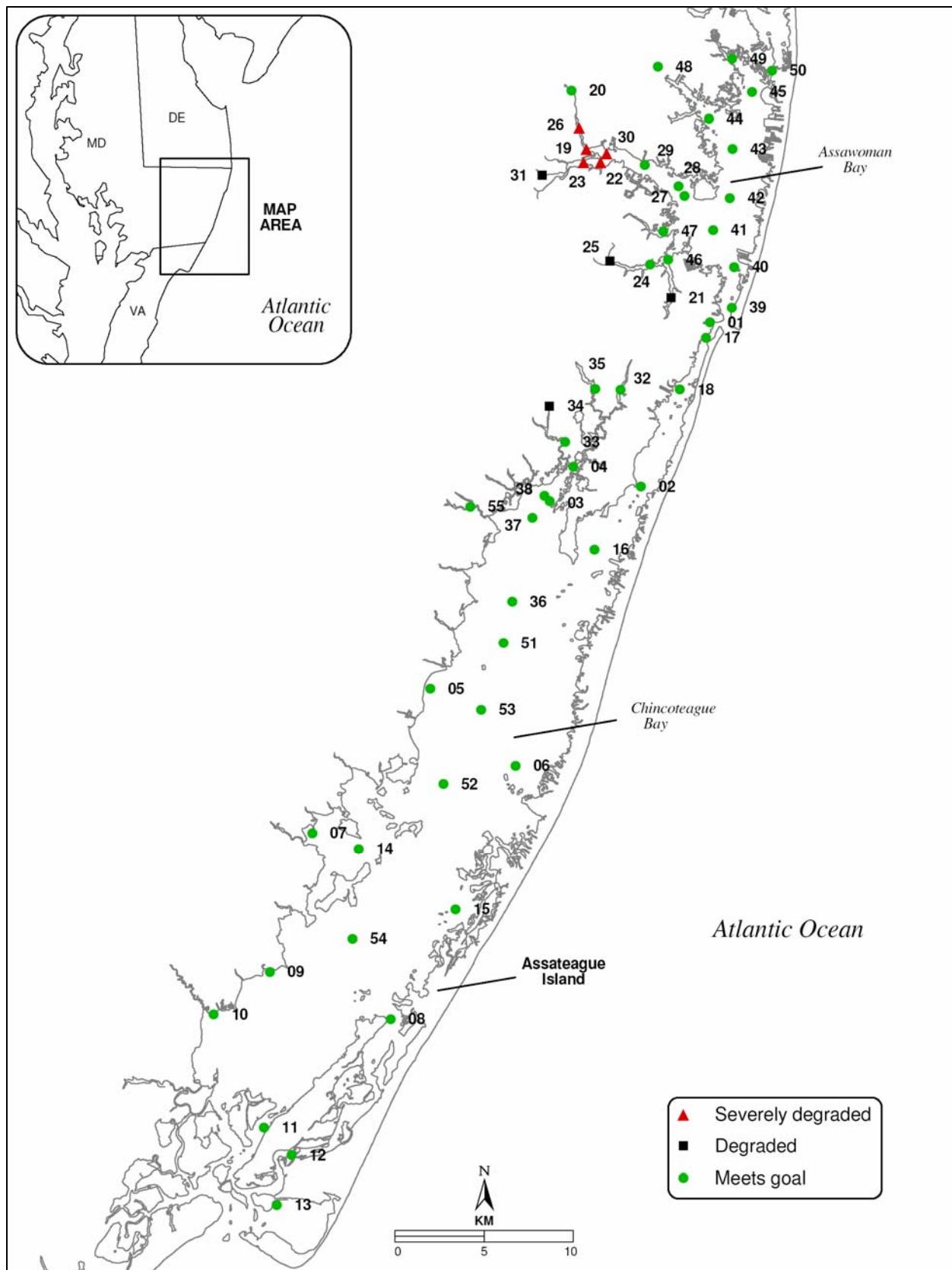


Figure 2. Benthic Community condition at each of the August 2004 Coastal Bays sites

Of the 55 sites sampled in 2004, 46 sites (83.6%) exhibited healthy benthic communities (index score equal to or greater than 3.0) and 9 (16.3%) exhibited degraded benthos (index score < 3.0, Table 2, Figure 2). Of the 9 sites that failed, 5 were classified as severely degraded and 4 were classified as moderately degraded by the benthic index.

Severely degraded sites (19, 22, 23, 26, and 30) were depauperate, with very low abundance and species richness. Site 23 was azoic and anoxic (bottom DO = 0.6 mg/l). Site 34 had only one organism in the sample (the bottom DO concentration was good). Site 34 scored "5" for deep-deposit feeders, an artifact of the metric scoring system when abundance is very low. Site 34 should be considered severely degraded. Degradation at the remaining of the failing sites was due to strong dominance of Tubificidae (Site 31), or low abundance and taxa richness (Sites 21 and 25).

Sites 21, 22, 23, 24, 25, 26, 30, and 46 were hypoxic (DO < 2 mg/l). Except for Site 46, all these sites exhibited low abundance. Degradation and hypoxia were largely confined to the upper reaches of the St. Martin River, Turville Creek, and Herring Creek. Heavy rains during the sampling period contributed to the strong density stratification of the water column (see Table 3) at these sites and likely to hypoxia. Degradation in 2004 was very similar to the level of degradation and location of degradation observed in 2000 and 2001.

Dominance of small polychaete and ampeliscid species was present at some sites, but the dominance pattern was not as strong as in previous years (2002, 2003). Excess abundance of organisms, which is common in the coastal bays, is often attributed to organic enrichment of the sediment and has been linked to excess algal growth and nutrient over enrichment in some studies.

The influencing effects of hydrographic conditions should be weighed when interpreting the results of this year's monitoring data and when comparing these results to those from previous years.

Table 1. Coastal bays sampling sites for 2004

Program	Station (this report)	Station (DNR)	Latitude	Longitude
National Park Service	MD04-01	NPS-1	38° 19.643	75° 6.271
	MD04-02	NPS-2	38° 14.753	75° 8.924
	MD04-03	NPS-3	38° 14.325	75° 12.431
	MD04-04	NPS-4	38° 15.344	75° 11.525
	MD04-05	NPS-5	38° 8.729	75° 17.023
	MD04-06	NPS-6	38° 6.448	75° 13.742
	MD04-07	NPS-7	38° 4.435	75° 21.553
	MD04-08	NPS-8	37° 58.902	75° 18.544
	MD04-09	NPS-9	38° 0.309	75° 23.187
	MD04-10	NPS-10	37° 59.040	75° 25.348
	MD04-11	NPS-11	37° 55.673	75° 23.416
	MD04-12	NPS-12	37° 54.849	75° 22.354
	MD04-13	NPS-13	37° 53.377	75° 22.921
	MD04-14	NPS-14	38° 3.961	75° 19.774
	MD04-15	NPS-15	38° 2.162	75° 16.054
	MD04-16	NPS-16	38° 12.888	75° 10.706
	MD04-17	NPS-17	38° 19.203	75° 6.422
	MD04-18	NPS-18	38° 17.653	75° 7.427
<i>Pfiesteria</i>	MD04-19	BSH0008	38° 24.820	75° 11.015
	MD04-20	BSH0030	38° 26.541	75° 11.593
	MD04-21	HEC0012	38° 20.380	75° 7.761
	MD04-22	SPR0002	38° 24.425	75° 10.469
	MD04-23	SPR0009	38° 24.423	75° 11.125
	MD04-24	TUV0019	38° 21.364	75° 8.567
	MD04-25	TUV0034	38° 21.476	75° 10.115
	MD04-26	XDM4486	38° 25.452	75° 11.295
	MD04-27	XDN3527	38° 23.416	75° 7.250
	MD04-28	XDN3724	38° 23.705	75° 7.475
	MD04-29	XDN4312	38° 24.337	75° 8.777
	MD04-30	XDN4797	38° 24.687	75° 10.241
	MD04-31	BIH0009	38° 24.034	75° 12.722
	MD04-32	AYR0017	38° 17.643	75° 9.707
	MD04-33	NPC0012	38° 16.078	75° 11.834
	MD04-34	NPC0031	38° 17.164	75° 12.437
	MD04-35	TRC0043	38° 17.674	75° 10.675
	MD04-36	XCM1562	38° 11.331	75° 13.869
	MD04-37	XCM3367	38° 13.824	75° 13.090
	MD04-38	XCM4878	38° 14.481	75° 12.627

Table 1. (Continued)

Program	Station (this report)	Station (DNR)	Latitude	Longitude
National Coastal Assessment	MD04-39	XDN0146	38° 20.084	75° 5.424
	MD04-40	XDN2438	38° 21.287	75° 5.333
	MD04-41	XDN2340	38° 22.402	75° 6.146
	MD04-42	XDN3445	38° 23.357	75° 5.504
	MD04-43	XDN4851	38° 24.812	75° 5.399
	MD04-44	XDN5737	38° 25.703	75° 6.310
	MD04-45	XDN6454	38° 26.503	75° 4.653
	MD04-46	TUV0011	38° 21.509	75° 7.876
	MD04-47	MKL0010	38° 22.356	75° 8.061
	MD04-48	GET0005	38° 27.237	75° 8.267
	MD04-49	XDN7545	38° 27.480	75° 5.416
	MD04-50	XDN7261	38° 27.132	75° 3.879
	MD04-51	XCM0159	38° 10.093	75° 14.207
	MD04-52	XBM8149	38° 5.905	75° 16.518
	MD04-53	XBM5932	38° 8.106	75° 15.062
	MD04-54	XBM1301	38° 1.283	75° 20.009
	MD04-55	MSL0011	38° 14.150	75° 15.479

Table 2. MAIA B-|BI| metric values and index scores. Blanks indicate metrics not applicable to the salinity habitat in which the station was classified, or correspond to measures for which percentages cannot be calculated. Salinity class definition: Poly = polyhaline (> 18 psu); HM = high mesohaline (12-18 psu); LM = low mesohaline (5-12 psu); TF = tidal freshwater (0-0.5 psu).

Site	Abundance (#/m ²)	Shannon -Wiener (#/0.044 m ²)	No. Taxa (#/0.044 m ²)	% Dominance	% Pollution Indicative	% Tany/Chiron Abundance	% Bivalve Abundance	% Deep Feeding	Abun Score	Shan Score	Taxa score	Domi Score	Pollu-ind Score	Bival Score	Tany Score	Deep Score	MAIA Index	Salinity Class
MD04-01	3909.1	3.80	21	33.14	8.72	23.84	.	4.65	26.74	5	5	.	.	.	.	3	4.5	Poly
MD04-02	8795.4	2.90	34	61.50	5.17	66.41	.	3.36	46.77	1	3	5	.	.	.	3	3.0	Poly
MD04-03	7477.2	3.06	27	61.40	0.30	47.42	.	0.91	68.09	3	3	5	.	.	.	3	3.5	Poly
MD04-04	21409.0	2.52	30	70.28	1.17	57.43	.	0.53	64.76	1	3	5	3	.	5	.	3.4	HM
MD04-05	13568.1	2.97	33	60.47	10.22	61.81	.	6.37	56.11	1	3	5	.	.	.	3	3.0	Poly
MD04-06	20659.0	2.35	36	72.39	7.59	74.26	.	7.92	68.98	1	3	5	.	.	.	5	3.5	Poly
MD04-07	12454.5	2.21	21	73.91	0.18	67.52	.	1.46	77.92	1	3	5	.	.	.	3	3.0	Poly
MD04-08	23840.8	3.41	45	52.34	0.10	17.35	.	0.38	55.67	1	5	5	.	.	.	1	3.0	Poly
MD04-09	14863.6	2.86	30	69.42	3.06	56.42	.	3.82	58.10	1	3	5	.	.	.	3	3.0	Poly
MD04-10	12750.0	2.36	24	73.44	5.17	70.77	.	3.21	65.60	1	3	5	.	.	.	3	3.0	Poly
MD04-11	2704.5	3.16	24	57.14	2.52	60.50	.	50.42	20.17	5	5	.	.	.	5	5.0	Poly	
MD04-12	7227.2	3.17	29	51.26	0.31	52.52	.	1.57	47.80	3	5	5	.	.	.	3	4.0	Poly
MD04-13	4590.9	3.52	22	38.12	10.40	36.14	.	2.48	20.79	5	5	5	.	.	.	3	4.5	Poly
MD04-14	7840.9	2.31	21	70.43	3.48	68.99	.	2.61	73.33	3	3	5	.	.	.	3	3.5	Poly
MD04-15	11681.8	3.60	38	50.39	0.58	59.14	.	4.86	53.11	1	5	5	.	.	.	3	3.5	Poly
MD04-16	16477.2	2.51	33	76.83	1.24	57.10	.	2.34	55.45	1	3	5	.	.	.	3	3.0	Poly
MD04-17	3181.8	1.79	18	79.29	0.00	76.43	.	75.00	4.29	5	1	3	.	.	5	.	3.5	Poly
MD04-18	15204.5	2.96	31	63.98	3.29	46.04	.	2.69	52.62	1	3	5	.	.	.	3	3.0	Poly
MD04-19	590.9	1.69	5	84.62	3.85	0.00	.	0.00	84.62	1	1	1	.	.	1	.	1.0	HM
MD04-20	4386.3	2.49	14	68.39	72.54	2.07	0.00	0.00	64.25	5	.	.	.	5	.	3	4.3	TF
MD04-21	750.0	2.24	5	51.52	21.21	18.18	.	9.09	18.18	1	3	1	5	3	.	.	2.6	LM
MD04-22	522.7	1.72	5	78.26	4.35	0.00	.	0.00	21.74	1	1	1	.	.	.	1	1.0	Poly
MD04-23	0.0	0.00	0	.	.	.	.	.	1	1	1	1	.	.	.	.	1.0	HM
MD04-24	500.0	2.51	8	54.55	31.82	4.55	.	4.55	9.09	1	3	5	.	3	.	.	3.0	HM
MD04-25	136.4	1.92	4	66.67	33.33	0.00	.	0.00	50.00	1	3	1	3	.	.	.	2.2	LM
MD04-26	227.3	1.36	3	90.00	90.00	0.00	.	0.00	60.00	1	1	1	1	.	.	.	1.0	HM
MD04-27	2795.4	3.21	16	48.78	16.26	.	4.88	18.70	5	5	3	.	.	.	3	4.0	Poly	
MD04-28	7795.4	3.22	30	56.85	2.33	51.31	.	3.21	51.90	3	5	5	.	.	.	3	4.0	Poly
MD04-29	2750.0	2.59	16	61.98	4.13	4.13	0.83	0.83	8.26	5	3	.	.	3	.	3.5	Poly	
MD04-30	545.5	1.39	4	91.67	54.17	0.00	0.00	0.00	1	1	1	1	.	.	1	1.0	Poly	

Table 2. (Continued)

Site	Abundance (#/m ²)	Shannon -Wiener (#/0.044 m ²)	No. Taxa (#/0.044 m ²)	% Dominance	% Pollution Indicative	% Pollution Sensitive	% Tany/ Chiron	% Bivalve Abundance	% Deep Feeding	Abun Score	Shan Score	Taxa score	Domini Score	Pollu- sen Score	Tany Score	Bival Score	Deep Score	MAIA Index	Salinity Class
MDO4-31	13704.5	1.46	13	92.87	95.36	0.17	0.00	0.17	93.03	1	.	.	.	.	5	.	1	2.3 TF
MDO4-32	7318.2	2.19	9	62.73	18.63	0.00	0.00	0.00	17.70	1	.	.	.	5	.	5	5	3.7 TF	
MDO4-33	13386.3	1.79	8	78.27	2.21	0.00	.	0.00	16.81	1	3	3	3	5	.	.	.	3.0 LM	
MDO4-34	22.7	0.00	1	100.00	100.00	0.00	100.00	0.00	0.00	1	.	.	.	1	.	5	5	2.3 TF	
MDO4-35	2659.1	1.80	5	68.38	29.06	0.00	0.00	0.00	0.00	5	.	.	.	5	.	5	5	5.0 TF	
MDO4-36	6227.3	3.81	34	45.62	4.74	50.00	.	3.65	52.92	3	5	5	.	.	3	.	3	4.0 Poly	
MDO4-37	6045.4	3.15	30	57.89	5.64	62.03	.	2.63	57.89	3	5	5	.	.	3	.	3	4.0 Poly	
MDO4-38	8113.6	2.84	31	64.43	2.52	61.62	.	1.40	65.55	3	3	5	.	.	3	.	3	3.5 Poly	
MDO4-39	840.9	2.46	10	64.86	0.00	21.62	.	18.92	2.70	3	3	3	.	.	5	.	5	3.5 Poly	
MDO4-40	4704.5	2.54	15	61.84	0.00	24.64	.	35.75	44.93	5	3	3	.	.	5	.	5	4.0 Poly	
MDO4-41	3295.4	2.79	14	53.79	18.62	55.17	.	16.55	53.79	5	3	3	.	.	5	.	5	4.0 Poly	
MDO4-42	17181.8	2.44	40	71.30	4.23	77.25	.	9.26	71.83	1	3	5	.	.	5	.	5	3.5 Poly	
MDO4-43	8409.1	2.82	31	62.97	2.70	73.24	.	4.86	70.81	3	3	5	.	.	3	.	3	3.5 Poly	
MDO4-44	6909.1	2.95	19	53.95	1.32	64.14	.	3.95	68.75	3	3	3	.	.	3	.	3	3.0 Poly	
MDO4-45	4681.8	3.69	27	42.72	5.83	58.25	.	5.83	49.51	5	5	5	.	.	3	.	3	4.5 Poly	
MDO4-46	3818.2	3.23	27	55.36	5.36	54.76	.	2.38	51.79	5	5	5	.	.	3	.	3	4.5 Poly	
MDO4-47	6181.8	2.76	24	61.76	7.72	67.65	.	15.81	57.35	3	3	5	.	.	5	.	5	4.0 Poly	
MDO4-48	1522.7	2.30	10	73.13	61.19	0.00	0.00	0.00	55.22	3	.	.	.	5	.	5	5	4.3 TF	
MDO4-49	3568.2	3.86	23	34.39	11.46	50.32	.	22.93	38.85	5	5	5	.	.	5	.	5	5.0 Poly	
MDO4-50	1613.6	3.04	14	52.11	4.23	4.23	.	9.86	7.04	5	3	3	.	.	5	.	5	4.0 Poly	
MDO4-51	13886.3	3.95	44	43.37	4.58	62.19	.	8.18	41.08	1	5	5	.	.	5	.	5	4.0 Poly	
MDO4-52	5363.6	2.52	17	71.61	25.00	58.90	.	25.85	46.61	5	3	3	.	.	5	.	5	4.0 Poly	
MDO4-53	4772.7	2.54	20	65.24	11.43	69.52	.	5.71	60.00	5	3	5	.	.	3	.	3	4.0 Poly	
MDO4-54	11818.1	3.71	40	46.54	0.38	51.35	.	7.69	40.77	1	5	5	.	.	5	.	5	4.0 Poly	
MDO4-55	2409.1	1.56	7	84.91	0.00	0.00	0.00	18.87	5	.	.	.	5	.	5	.	5	5.0 TF	

Table 3. Site specific water quality measurements and sediment composition

Site	DNR Station	Sampling		Silt-Clay (%)	Depth (m)	Temp (°C)	pH	DO Conc (mg/L)	Salinity (psu)
		Date	Time (hh:mm)						
MD04-01	NPS 01	8/11/2004	9:42	30.25	0.5	24.75	8.02	5.86	26.18
			9:36		1.0	24.55	7.97	5.31	26.54
			9:36		2.0	24.56	7.97	5.28	26.53
			9:33		3.0	24.42	7.90	4.94	27.51
MD04-02	NPS 02	8/11/2004	11:57	6.84	0.5	25.02	8.14	6.01	26.35
			11:56		1.0	25.02	8.15	5.86	26.37
			11:56		1.6	25.00	8.14	6.12	26.37
MD04-03	NPS 03	8/11/2004	14:44	80.96	0.5	26.23	8.06	6.86	24.72
			14:43		1.0	26.21	8.05	7.17	24.73
			14:43		1.4	26.23	8.06	6.55	24.72
MD04-04	NPS 04	8/11/2004	15:11	82.77	0.5	26.48	8.03	7.25	17.09
			15:11		1.0	26.39	8.02	6.94	17.22
			15:10		1.4	26.16	7.95	6.52	17.67
MD04-05	NPS 05	8/12/2004	13:48	95.34	0.5	26.59	8.03	7.25	26.75
			13:47		1.0	26.57	8.02	7.12	26.75
			13:46		1.4	26.42	8.00	7.53	26.74
MD04-06	NPS 06	8/12/2004	12:40	16.76	0.5	26.02	8.28	6.91	27.78
			12:39		1.0	26.00	8.28	6.76	27.77
			12:37		2.0	25.33	8.13	5.96	27.86
MD04-07	NPS 07	8/12/2004	10:48	82.41	0.5	25.75	7.63	5.35	25.07
			10:47		1.0	25.65	7.61	4.95	25.25
MD04-08	NPS 08	8/10/2004	16:50	36.30	0.5	27.34	8.22	7.29	27.43
MD04-09	NPS 09	8/10/2004	11:08	35.80	0.5	25.04	7.94	6.22	27.03
			11:03		1.0	24.99	7.93	6.15	27.00
MD04-10	NPS 10	8/10/2004	11:51	80.42	0.5	25.93	7.95	6.91	25.12
			11:50		1.0	25.34	7.86	6.21	25.61
MD04-11	NPS 11	8/10/2004	12:49	6.18	0.5	24.99	8.09	6.90	27.77
			12:48		1.0	24.89	8.11	6.88	27.76
MD04-12	NPS 12	8/10/2004	13:48	11.43	0.5	25.60	7.90	6.36	26.63
			13:47		1.0	25.35	7.88	6.25	26.63
			13:46		2.0	25.26	7.87	6.19	26.61
			13:45		2.8	25.26	7.87	6.19	26.61
MD04-13	NPS 13	8/10/2004	14:54	5.52	0.5	25.53	8.20	8.79	28.40
			14:48		1.0	25.61	8.25	9.18	28.11
MD04-14	NPS 14	8/12/2004	11:25	65.06	0.5	25.89	7.83	5.87	26.70
			11:24		1.0	25.87	7.83	5.81	26.71
			11:22		1.4	25.37	7.74	4.56	27.01
MD04-15	NPS 15	8/12/2004	10:13	6.12	0.5	25.50	8.21	5.82	28.84
			10:12		1.0	25.49	8.20	5.79	28.85
			10:10		1.7	25.45	8.16	5.79	28.84

Table 3. (Continued)

Site	DNR Station	Sampling		Silt-Clay (%)	Depth (m)	Temp (°C)	pH	DO Conc (mg/L)	Salinity (psu)
		Date	Time (hh:mm)						
MD04-16	NPS16	8/11/2004	12:44	21.75	0.5	24.74	8.26	6.26	26.15
			12:43		1.0	24.73	8.26	6.28	26.15
			12:43		1.7	24.70	8.25	6.14	26.13
MD04-17	NPS 17	8/11/2004	10:15	2.59	0.5	24.68	8.04	5.82	25.98
			10:13		1.0	24.67	8.04	5.77	25.98
			10:12		2.0	24.66	8.04	5.80	25.98
			10:10		2.5	24.65	8.03	5.68	25.98
MD04-18	NPS 18	8/11/2004	11:07	15.38	0.5	25.34	8.26	7.11	25.72
			11:04		1.0	25.26	8.25	6.80	25.75
			11:01		2.0	25.20	8.22	6.49	25.77
MD04-19	BHS0008	8/4/2004	13:41	49.87	0.5	28.06	8.14	10.69	14.13
			13:37		1.0	27.46	7.23	3.04	17.95
MD04-20	BHS0030	8/17/2004	12:04	9.15	0.2	22.23	6.38	8.10	0.06
MD04-21	HEC0012	8/6/2004	11:06	80.55	0.5	24.62	6.60	3.52	5.62
			11:04		1.0	24.89	6.62	1.92	7.58
MD04-22	SPR0002	8/4/2004	14:27	77.36	0.5	29.27	6.82	5.91	2.26
			14:24		1.0	27.31	7.20	1.44	20.75
			14:23		1.5	27.27	7.23	1.82	21.34
MD04-23	SPR0009	8/4/2004	15:18	79.54	0.5	27.69	6.88	6.22	6.98
			15:16		1.0	27.17	6.99	0.55	16.77
MD04-24	TUV0019	8/6/2004	10:33	81.67	0.5	24.27	6.86	4.66	5.83
			10:32		1.0	25.89	6.93	0.95	15.57
			10:28		1.4	25.76	6.95	0.96	16.14
MD04-25	TUV0034	8/18/2004	13:21	34.84	0.5	22.77	6.44	3.47	2.95
			13:20		1.0	22.76	6.47	3.30	3.06
			13:20		2.0	23.71	6.51	1.54	7.69
MD04-26	XDM4486	8/4/2004	12:23	73.73	0.5	26.67	6.60	4.97	1.04
			12:21		1.0	26.63	6.86	1.11	12.40
MD04-27	XDN3527	8/5/2004	14:31	93.29	0.5	26.37	8.00	7.60	21.75
			14:30		1.0	26.36	7.95	7.35	22.02
			14:27		2.0	25.76	7.55	2.92	26.21
MD04-28	XDN3724	8/12/2004	16:50	82.11	0.5	27.05	8.07	6.68	23.88
			16:49		1.0	27.06	8.08	6.73	23.88
			16:47		1.6	27.04	8.06	6.67	23.86
MD04-29	XDN4312	8/4/2004	10:20	90.57	0.5	26.45	7.40	5.60	14.48
			10:19		1.0	26.64	7.46	3.64	23.15
			10:13		1.4	26.73	7.44	3.15	23.48
MD04-30	XDN4797	8/4/2004	11:21	76.05	0.5	27.84	7.18	6.47	7.54
			11:17		1.0	27.27	7.20	1.22	20.90
			11:17		1.4	27.27	7.20	1.24	20.99
MD04-31	BIH0009	8/18/2004	14:58	8.20	0.5	21.89	6.30	7.33	0.04
MD04-32	AYR0017	8/17/2004	15:17	6.79	0.5	27.20	6.18	4.92	0.12

Table 3. (Continued)

Site	DNR Station	Sampling		Silt-Clay (%)	Depth (m)	Temp (°C)	pH	DO Conc (mg/L)	Salinity (psu)
		Date	Time (hh:mm)						
MD04-33	NPC0012	8/18/2004	16:01	21.27	0.5	26.83	7.84	8.66	10.44
MD04-34	NPC0031	8/17/2004	16:04	43.56	0.5	22.17	5.91	5.84	0.04
MD04-35	TRC0043	8/18/2004	12:03	3.12	0.3	24.48	6.62	5.65	0.12
MD04-36	XCM1562	8/12/2004	14:57 14:55 14:53	44.20	0.5 1.0 2.0	26.39 26.39 25.62	8.12 8.12 7.97	7.14 7.30 5.71	26.06 26.05 26.27
MD04-37	XCM3367	8/11/2004	13:36 13:34	94.07	0.5 1.0	25.51 25.43	7.89 7.88	5.68 5.61	23.97 23.93
MD04-38	XCM4878	8/11/2004	14:16 14:15 14:15	90.46	0.5 1.0 1.7	25.97 25.94 25.73	8.03 8.03 7.98	6.65 6.40 6.08	23.70 23.72 24.17
MD04-39	XDN0146	8/9/2004	16:27 16:25 16:23 16:22	0.98	0.5 1.0 2.0 2.2	24.07 24.07 24.05 24.06	8.10 8.10 8.09 8.10	7.57 7.58 7.58 7.57	29.87 29.87 29.87 29.87
MD04-40	XDN2438	8/9/2004	15:40	1.41	0.5	23.90	8.08	7.42	29.54
MD04-41	XDN2340	8/9/2004	15:14 15:10 15:07	62.41	0.5 1.0 1.7	24.90 24.81 23.83	8.24 8.21 7.53	9.25 9.33 2.27	23.69 23.67 26.94
MD04-42	XDN3445	8/5/2004	9:38 9:35 9:34 9:33	17.47	0.5 1.0 2.0 2.5	26.58 26.59 26.13 26.02	7.92 7.91 7.61 7.57	6.99 6.84 3.99 3.77	22.73 22.73 25.01 25.33
MD04-43	XDN4851	8/5/2004	10:29 10:28 10:24	67.84	0.5 1.0 2.0	26.87 26.88 26.69	7.89 7.88 7.57	6.55 6.47 3.80	22.60 22.61 23.72
MD04-44	XDN5737	8/5/2004	11:02 11:00 10:55	91.60	0.5 1.0 1.5	27.08 27.16 26.81	7.82 7.73 7.39	7.30 6.46 2.40	19.75 20.52 23.42
MD04-45	XDN6454	8/5/2004	11:45 11:43 11:41	75.50	0.5 1.0 1.7	26.86 26.84 26.86	7.92 7.90 7.56	6.65 6.57 3.56	19.94 19.97 21.95
MD04-46	TUV0011	8/6/2004	9:57 9:55 9:52	84.55	0.5 1.0 1.5	23.70 24.52 25.24	6.99 6.99 7.10	4.26 2.94 1.22	11.79 13.39 18.24
MD04-47	MKL0010	8/6/2004	9:14 9:10	11.27	0.5 1.0	25.21 25.56	7.50 7.35	5.18 3.63	19.19 21.03
MD04-48	GET0005	8/17/2004	13:35	4.63	0.5	22.83	6.47	6.91	0.08
MD04-49	XDN7545	8/5/2004	12:27 12:25 12:23	69.91	0.5 1.0 1.2	27.73 27.65 27.51	7.89 7.76 7.43	7.00 5.93 3.51	20.61 20.72 21.01

Table 3. (Continued)

Site	DNR Station	Sampling		Silt-Clay (%)	Depth (m)	Temp (°C)	pH	DO Conc (mg/L)	Salinity (psu)
		Date	Time (hh:mm)						
MD04-50	XDN7261	8/5/2004	13:24	1.70	0.5	26.86	7.84	6.03	20.61
			13:23		1.0	26.87	7.84	6.04	20.64
			13:21		2.0	26.88	7.85	6.09	20.62
			13:20		3.0	26.88	7.85	6.08	20.63
			13:19		4.0	26.88	7.84	6.05	20.62
			13:18		5.0	26.88	7.84	6.05	20.62
MD04-51	XCM0159	8/12/2004	14:22	27.50	0.5	26.54	8.14	7.89	25.87
			14:22		1.0	26.49	8.13	7.85	25.91
			14:20		1.8	25.09	7.91	4.97	27.16
MD04-52	XBM8149	8/12/2004	12:04	5.99	0.5	25.68	8.12	6.30	28.79
			12:00		1.0	25.59	8.12	6.32	28.78
			12:00		1.8	25.50	8.12	6.07	28.79
MD04-53	XBM5932	8/12/2004	13:17	92.89	0.5	26.10	8.06	6.55	28.33
			13:16		1.0	26.11	8.05	6.23	28.34
			13:15		2.0	25.36	7.98	5.03	28.32
MD04-54	XBM1301	8/10/2004	10:22	13.07	0.5	24.59	8.15	6.73	29.62
			10:20		1.0	24.57	8.15	6.68	29.63
			10:19		1.6	24.52	8.14	6.67	29.62
MD04-55	MSL0011	8/18/2004	9:36	74.32	0.5	23.10	6.27	3.04	0.41

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**APPENDIX
SPECIES ABUNDANCES**

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-01		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	25	568
Annelida : Polychaeta		
Apopriionospio pygmaea	3	68
Aricidea catherinae	10	227
Exogone dispar	15	341
Glycinde solitaria	4	91
Mediomastus ambiseta	21	477
Polydora cornuta	5	114
Scolelepis texana	6	136
Spiochaetopterus costarum	5	114
Streblospio benedicti	8	182
Tharyx sp. A Morris	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	32	727
Elasmopus laevis (Epi.)	6	136
Listriella barnardi	2	45
Microprotopus raneyi (Epi.)	1	23
Monocorophium tuberculatum (Epi.)	20	455
Arthropoda : Cumacea		
Leucon americanus	1	23
Oxyurostylis smithi	3	68
Cnidaria : Anthozoa		
Anthozoa	1	23
Mollusca : Bivalvia		
Ensis directus	1	23
Mulinia lateralis	7	159
Mollusca : Gastropoda		
Acteocina canaliculata	10	227
Rictaxis punctostriatus	6	136
Nemertina		
Nemertina	3	68
Number of Taxa w/ Epi.	24	
Number of Taxa w/o Epi.	21	
Total Count w/ Epi.	199	
Total Count w/o Epi.	172	
Total Abundance w/ Epi.		4523
Total Abundance w/o Epi.		3909

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-02		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	4	91
Annelida : Polychaeta		
Brania clavata	1	23
Brania wellfleetensis	1	23
Clymenella torquata	1	23
Demonax microphthalmus	2	45
Euclymene zonalis	9	205
Exogone dispar	7	159
Glycera americana	1	23
Glycinde solitaria	2	45
Heteromastus filiformis	2	45
Mediomastus ambiseta	98	2227
Mediomastus spp. *	67	1523
Parahesione luteola	1	23
Parapionosyllis longicirrata	1	23
Scolelepis bousfieldi	1	23
Scoletoma tenuis	3	68
Sphaerosyllis erinaceus	1	23
Streblospio benedicti	17	386
Arthropoda : Amphipoda		
Americhelidium americanum	1	23
Ameroculodes species complex	1	23
Ampelisca abdita	57	1295
Ampelisca vadorum	3	68
Ampelisca verrilli	73	1659
Batea catharinensis (Epi.)	18	409
Cerapus tubularis (Epi.)	8	182
Elasmopus laevis (Epi.)	1	23
Eobrolgus spinosus	2	45
Ericthonius brasiliensis (Epi.)	4	91
Listriella barnardi	9	205
Lysianopsis alba	1	23
Microprotopus raneyi (Epi.)	1	23
Monocorophium acherusicum (Epi.)	5	114
Monocorophium spp. *	1	23
Monocorophium tuberculatum (Epi.)	15	341

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-02 Contd.)

TAXA	Count	Abundance (#/m2)
Paracaprella tenuis (Epi.)	2	45
Arthropoda : Cumacea		
Cyclaspis varians	1	23
Oxyurostylis smithi	1	23
Arthropoda : Isopoda		
Cyathura burbancki	3	68
Arthropoda : Mysidacea		
Americamysis bahia (Epi.)	5	114
Arthropoda : Pycnogonida		
Anoplodactylus petiolatus (Epi.)	1	23
Callipallene brevirostris (Epi.)	2	45
Cnidaria : Anthozoa		
Anthozoa	1	23
Echinodermata : Holothuroidea		
Leptosynapta tenuis	1	23
Mollusca : Bivalvia		
Gemma gemma	4	91
Mulinia lateralis	3	68
Tellina agilis	6	136
Mollusca : Gastropoda		
Crepidula fornicata (Epi.)	2	45
Rictaxis punctostriatus	1	23
===== Number of Taxa w/ Epi.	46	
Number of Taxa w/o Epi.	34	
Total Count w/ Epi.	452	
Total Count w/o Epi.	387	
Total Abundance w/ Epi.		10273
Total Abundance w/o Epi.		8795

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-03		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	73	1659
Annelida : Polychaeta		
Carazziella hobsonae	8	182
Clymenella torquata	1	23
Cossura sp. A Maciolek	1	23
Diopatra cuprea	5	114
Euclymene zonalis	5	114
Exogone dispar	26	591
Glycera americana	1	23
Glycinde solitaria	1	23
Heteromastus filiformis	2	45
Leitoscoloplos robustus	3	68
Mediomastus ambiseta	4	91
Mediomastus spp. *	125	2841
Melinna maculata	18	409
Notomastus sp. A Ewing	7	159
Paranaitis speciosa	1	23
Parapriionospio pinnata	1	23
Podarkeopsis levifuscina	5	114
Sabaco elongatus	3	68
Spiochaetopterus costarum	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	3	68
Ericthonius brasiliensis (Epi.)	1	23
Listriella barnardi	9	205
Monocorophium tuberculatum (Epi.)	1	23
Arthropoda : Cumacea		
Leucon americanus	13	295
Arthropoda : Isopoda		
Edotea triloba (Epi.)	3	68
Cnidaria : Anthozoa		
Edwardsia elegans	1	23
Echinodermata : Holothuroidea		
Pentamera pulcherrima	2	45
Mollusca : Bivalvia		
Tagelus divisus	3	68

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-03 Contd.)

TAXA	Count	Abundance (#/m2)
Mollusca : Gastropoda		
Acteocina canaliculata	1	23
Phoronida		
Phoronis spp.	3	68
===== Number of Taxa w/ Epi.	30	
Number of Taxa w/o Epi.	27	
Total Count w/ Epi.	334	
Total Count w/o Epi.	329	
Total Abundance w/ Epi.		7591
Total Abundance w/o Epi.		7477

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-04		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	31	705
Annelida : Polychaeta		
Brania clavata	4	91
Eteone foliosa	4	91
Eteone heteropoda	8	182
Exogone dispar	132	3000
Glycinde solitaria	5	114
Heteromastus filiformis	10	227
Leitoscoloplos robustus	38	864
Mediomastus ambiseta	132	3000
Mediomastus spp. *	398	9045
Melinna maculata	23	523
Microphtalmus sczelkowii	3	68
Podarkeopsis levifuscina	4	91
Polydora cornuta	8	182
Sabaco elongatus	1	23
Scoletoma tenuis	37	841
Sphaerosyllis brevidentata	9	205
Spiochaetopterus costarum	1	23
Streblospio benedicti	2	45
Streptosyllis pettiboneae	22	500
Arthropoda : Amphipoda		
Ampelisca abdita	1	23
Elasmopus laevis (Epi.)	1	23
Listriella barnardi	2	45
Paracaprella tenuis (Epi.)	1	23
Arthropoda : Cumacea		
Cyclaspis varians	1	23
Leucon americanus	2	45
Oxyurostylis smithi	1	23
Arthropoda : Isopoda		
Edotea triloba (Epi.)	2	45
Cnidaria : Anthozoa		
Anthozoa	1	23
Mollusca : Bivalvia		
Mulinia lateralis	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-04 Contd.)

TAXA	Count	Abundance (#/m2)
Tagelus divisus	1	23
Tellina agilis	3	68
Mollusca : Gastropoda		
Rictaxis punctostriatus	7	159
Turbonilla spp. (Epi.)	1	23
Nemertina		
Nemertina	50	1136
Number of Taxa w/ Epi.	34	
Number of Taxa w/o Epi.	30	
Total Count w/ Epi.	947	
Total Count w/o Epi.	942	
Total Abundance w/ Epi.		21523
Total Abundance w/o Epi.		21409

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-05

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	10	227
Annelida : Polychaeta		
Cabira incerta	1	23
Carazziella hobsonae	2	45
Ceratonereis irritabilis	4	91
Cossura sp. A Maciolek	1	23
Diopatra cuprea	3	68
Euclymene zonalis	10	227
Exogone dispar	5	114
Glycera americana	2	45
Glycinde solitaria	12	273
Mediomastus ambiseta	19	432
Mediomastus spp. *	289	6568
Melinna maculata	11	250
Notomastus sp. A Ewing	6	136
Paraprionospio pinnata	25	568
Podarkeopsis levifuscina	3	68
Polydora cornuta	1	23
Scoletoma tenuis	8	182
Sphaerosyllis brevidentata	1	23
Spiochaetopterus costarum	3	68
Arthropoda : Amphipoda		
Ampelisca abdita	53	1205
Ampelisca verrilli	4	91
Batea catharinensis (Epi.)	1	23
Cerapus tubularis (Epi.)	1	23
Listriella barnardi	22	500
Monocorophium tuberculatum (Epi.)	12	273
Paracaprella tenuis (Epi.)	2	45
Unciola serrata	2	45
Arthropoda : Cumacea		
Leucon americanus	27	614
Arthropoda : Isopoda		
Cyathura burbancki	4	91
Edotea triloba (Epi.)	3	68
Arthropoda : Pycnogonida		
Anoplodactylus petiolatus (Epi.)	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-05 Contd.)

TAXA	Count	Abundance (#/m2)
Cnidaria : Anthozoa		
Ceriantheopsis americanus	1	23
Echinodermata : Holothuroidea		
Leptosynapta tenuis	1	23
Mollusca : Bivalvia		
Mulinia lateralis	36	818
Tagelus divisus	2	45
Mollusca : Gastropoda		
Acteocina canaliculata	23	523
Crepidula spp. (Epi.)	1	23
Odostomia spp. (Epi.)	3	68
Rictaxis punctostriatus	3	68
Turbonilla spp. (Epi.)	10	227
Nemertina		
Amphiporus bioculatus	1	23
Phoronida		
Phoronis spp.	2	45
===== Number of Taxa w/ Epi.	42	
Number of Taxa w/o Epi.	33	
Total Count w/ Epi.	631	
Total Count w/o Epi.	597	
Total Abundance w/ Epi.		14341
Total Abundance w/o Epi.		13568

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-06		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	10	227
Annelida : Polychaeta		
Brania clavata	2	45
Demonax microphthalmus	1	23
Diopatra cuprea	2	45
Euclymene zonalis	15	341
Eumida sanguinea	1	23
Exogone dispar	37	841
Glycera americana	5	114
Glycinde solitaria	3	68
Mediomastus ambiseta	47	1068
Mediomastus californiensis	9	205
Mediomastus spp. *	546	12409
Melinna maculata	4	91
Parapriionospio pinnata	1	23
Pista palmata	1	23
Polydora cornuta	1	23
Prionospio heterobranchia	2	45
Spiochaetopterus costarum	27	614
Spirorbis corrugatus (Epi.)	2	45
Streblospio benedicti	3	68
Arthropoda : Amphipoda		
Americhelidium americanum	4	91
Ampelisca abdita	42	955
Ampelisca vadorum	5	114
Ampelisca verrilli	5	114
Batea catharinensis (Epi.)	4	91
Cerapus tubularis (Epi.)	10	227
Elasmopus laevis (Epi.)	13	295
Eobrolgus spinosus	1	23
Ericthonius brasiliensis (Epi.)	5	114
Listriella barnardi	12	273
Microprotopus raneyi (Epi.)	2	45
Monocorophium tuberculatum (Epi.)	37	841
Arthropoda : Cumacea		
Cyclaspis varians	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-06 Contd.)

TAXA	Count	Abundance (#/m2)
Leucon americanus	2	45
Oxyurostylis smithi	1	23
Arthropoda : Isopoda		
Cyathura burbancki	2	45
Erichsonella attenuata (Epi.)	2	45
Arthropoda : Pycnogonida		
Anoplodactylus petiolatus (Epi.)	1	23
Cnidaria : Anthozoa		
Edwardsia elegans	1	23
Echinodermata : Holothuroidea		
Leptosynapta tenuis	4	91
Pentamera pulcherrima	3	68
Mollusca : Bivalvia		
Bivalvia *	2	45
Mulinia lateralis	65	1477
Tagelus divisus	5	114
Mollusca : Gastropoda		
Acteocina canaliculata	20	455
Nudibranchia (Epi.)	3	68
Rictaxis punctostriatus	10	227
Nemertina		
Nemertina	7	159
=====	=====	=====
Number of Taxa w/ Epi.	46	
Number of Taxa w/o Epi.	36	
Total Count w/ Epi.	988	
Total Count w/o Epi.	909	
Total Abundance w/ Epi.		22454
Total Abundance w/o Epi.		20659
=====	=====	=====

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-07

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	58	1318
Annelida : Polychaeta		
Carazziella hobsonae	9	205
Glycera americana	3	68
Glycinde solitaria	1	23
Leitoscoloplos robustus	3	68
Mediomastus ambiseta	6	136
Mediomastus spp. *	341	7750
Melinna maculata	4	91
Notomastus sp. A Ewing	9	205
Paraprionospio pinnata	1	23
Sabaco elongatus	10	227
Scoletoma tenuis	27	614
Spiochaetopterus costarum	5	114
Arthropoda : Amphipoda		
Ampelisca abdita	14	318
Elasmopus laevis (Epi.)	1	23
Listriella barnardi	27	614
Lysianopsis alba	1	23
Arthropoda : Cumacea		
Leucon americanus	8	182
Arthropoda : Isopoda		
Cyathura burbancki	9	205
Mollusca : Bivalvia		
Gemma gemma	7	159
Tagelus divisus	1	23
Mollusca : Gastropoda		
Acteocina canaliculata	3	68
Turbonilla spp. (Epi.)	3	68
Nemertina		
Amphiporus bioculatus	1	23
Number of Taxa w/ Epi.	23	
Number of Taxa w/o Epi.	21	
Total Count w/ Epi.	552	
Total Count w/o Epi.	548	
Total Abundance w/ Epi.		12545
Total Abundance w/o Epi.		12455

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-08

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta	396	9000
Oligochaeta		
Annelida : Polychaeta		
Aricidea catherinae	1	23
Brania clavata	8	182
Capitella capitata complex	18	409
Carazziella hobsonae	4	91
Clymenella torquata	8	182
Eteone heteropoda	1	23
Euclymene zonalis	30	682
Eunicidae	1	23
Exogone dispar	54	1227
Glycera americana	1	23
Glycinde solitaria	2	45
Heteromastus filiformis	3	68
Leitoscoloplos robustus	7	159
Mediomastus ambiseta	52	1182
Mediomastus californiensis	1	23
Mediomastus spp. *	64	1455
Melinna maculata	3	68
Notomastus sp. A Ewing	2	45
Odontosyllis fulgurans (Epi.)	1	23
Parahesione luteola	2	45
Parapionosyllis longicirrata	1	23
Piromis roberti	4	91
Pista palmata	2	45
Pista spp. *	2	45
Podarke obscura	1	23
Polydora cornuta	20	455
Prionospio heterobranchia	153	3477
Sabaco elongatus	1	23
Scolelepis texana	1	23
Scoletoma tenuis	6	136
Sphaerosyllis brevidentata	47	1068
Sphaerosyllis erinaceus	42	955
Spiochaetopterus costarum	18	409
Spirorbis corrugatus (Epi.)	52	1182

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-08 Contd.)

TAXA	Count	Abundance (#/m2)
<i>Streptosyllis varians</i>	20	455
<i>Tharyx</i> sp. A Morris	2	45
Arthropoda : Amphipoda		
<i>Ampelisca abdita</i>	11	250
<i>Ampithoe longimana</i> (Epi.)	1	23
<i>Caprella penantis</i> (Epi.)	1	23
<i>Cymadusa compta</i> (Epi.)	23	523
<i>Elasmopus laevis</i> (Epi.)	33	750
<i>Listriella barnardi</i>	8	182
<i>Lysianopsis alba</i>	25	568
<i>Microdeutopus gryllotalpa</i> (Epi.)	6	136
<i>Paracaprella tenuis</i> (Epi.)	6	136
Arthropoda : Decapoda		
<i>Pinnixa</i> spp.	1	23
Arthropoda : Isopoda		
<i>Cyathura burbancki</i>	1	23
<i>Edotea triloba</i> (Epi.)	3	68
<i>Erichsonella filiformis</i> (Epi.)	2	45
<i>Paracerceis caudata</i> (Epi.)	2	45
Arthropoda : Mysidacea		
<i>Americanysis bahia</i> (Epi.)	2	45
Arthropoda : Pycnogonida		
<i>Callipallene brevirostris</i> (Epi.)	1	23
Chordata : Ascidiacea		
<i>Ascidiae</i> (Epi.)	1	23
Cnidaria : Anthozoa		
Anthozoa	1	23
Hemichordata		
<i>Saccoglossus kowalevskii</i>	1	23
Mollusca : Bivalvia		
<i>Bivalvia</i> *	1	23
<i>Solemya velum</i>	2	45
<i>Tagelus divisus</i>	1	23
Mollusca : Gastropoda		
<i>Acteocina canaliculata</i>	5	114
<i>Bittium alternatum</i> (Epi.)	14	318
<i>Crepidula</i> spp. (Epi.)	1	23
<i>Gastropoda</i> (Epi.)	8	182

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-08 Contd.)

TAXA	Count	Abundance (#/m2)
Rictaxis punctostriatus	4	91
Nemertina		
Nemertina	10	227
=====	=====	=====
Number of Taxa w/ Epi.	62	
Number of Taxa w/o Epi.	45	
Total Count w/ Epi.	1206	
Total Count w/o Epi.	1049	
Total Abundance w/ Epi.		27409
Total Abundance w/o Epi.		23841
=====	=====	=====

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-09

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	36	818
Annelida : Polychaeta		
Ceratonereis irritabilis	4	91
Clymenella torquata	8	182
Cossura sp. A Maciolek	4	91
Euclymene zonalis	17	386
Exogone dispar	2	45
Glycera americana	2	45
Glycinde solitaria	3	68
Mediomastus ambiseta	46	1045
Mediomastus californiensis	8	182
Mediomastus spp. *	254	5773
Melinna maculata	3	68
Notomastus sp. A Ewing	7	159
Paraprionospio pinnata	3	68
Podarkeopsis levifuscina	5	114
Polydora cornuta	7	159
Scoletoma tenuis	8	182
Sphaerosyllis brevidentata	1	23
Streblospio benedicti	5	114
Arthropoda : Amphipoda		
Ampelisca abdita	154	3500
Ampelisca vadorum	2	45
Ampelisca verrilli	5	114
Batea catharinensis (Epi.)	2	45
Ericthonius brasiliensis (Epi.)	8	182
Listriella barnardi	10	227
Micropotopus raneyi (Epi.)	7	159
Monocorophium tuberculatum (Epi.)	64	1455
Arthropoda : Isopoda		
Cyathura burbancki	5	114
Mollusca : Bivalvia		
Mulinia lateralis	12	273
Tagelus divisus	8	182
Tellina agilis	5	114
Mollusca : Gastropoda		
Acteocina canaliculata	18	409

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-09 Contd.)

TAXA	Count	Abundance (#/m2)
<i>Rictaxis punctostriatus</i>	6	136
Nemertina		
Nemertina	3	68
Phoronida		
Phoronis spp.	3	68
===== Number of Taxa w/ Epi.	34	
Number of Taxa w/o Epi.	30	
Total Count w/ Epi.	735	
Total Count w/o Epi.	654	
Total Abundance w/ Epi.		16704
Total Abundance w/o Epi.		14864

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-10

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	15	341
Annelida : Polychaeta		
Ceratonereis irritabilis	1	23
Cossura sp. A Maciolek	1	23
Diopatra cuprea	1	23
Euclymene zonalis	5	114
Exogone dispar	4	91
Glycinde solitaria	7	159
Mediomastus ambiseta	32	727
Mediomastus spp. *	315	7159
Melinna maculata	4	91
Paraprionospio pinnata	14	318
Scoletoma tenuis	10	227
Spiochaetopterus costarum	5	114
Tharyx sp. A Morris	2	45
Arthropoda : Amphipoda		
Ampelisca abdita	65	1477
Ampelisca verrilli	5	114
Batea catharinensis (Epi.)	2	45
Cerapus tubularis (Epi.)	1	23
Listriella barnardi	15	341
Monocorophium tuberculatum (Epi.)	8	182
Unciola serrata	3	68
Arthropoda : Cumacea		
Leucon americanus	10	227
Arthropoda : Isopoda		
Cyathura burbancki	4	91
Mollusca : Bivalvia		
Mulinia lateralis	15	341
Tagelus divisus	3	68
Mollusca : Gastropoda		
Acteocina canaliculata	19	432
Crepidula spp. (Epi.)	3	68
Turbonilla spp. (Epi.)	12	273
Nemertina		
Amphiporus bioculatus	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-10 Contd.)

TAXA	Count	Abundance (#/m2)
Phoronida		
<i>Phoronis</i> spp.	5	114
Number of Taxa w/ Epi.	29	
Number of Taxa w/o Epi.	24	
Total Count w/ Epi.	587	
Total Count w/o Epi.	561	
Total Abundance w/ Epi.		13341
Total Abundance w/o Epi.		12750

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-11		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	15	341
Annelida : Polychaeta		
Apopriionospio pygmaea	2	45
Aricidea catherinae	4	91
Clymenella torquata	1	23
Glycinde solitaria	2	45
Mediomastus ambiseta	8	182
Scolelepis texana	1	23
Streblospio benedicti	1	23
Tharyx sp. A Morris	1	23
Arthropoda : Amphipoda		
Americhelidium americanum	7	159
Ampelisca abdita	1	23
Batea catharinensis (Epi.)	1	23
Caprella penantis (Epi.)	1	23
Listriella barnardi	2	45
Lysianopsis alba	1	23
Arthropoda : Cumacea		
Leucon americanus	1	23
Oxyurostylis smithi	2	45
Arthropoda : Decapoda		
Pagurus spp. (Epi.)	1	23
Arthropoda : Mysidacea		
Americamysis bigelowi (Epi.)	1	23
Cnidaria : Anthozoa		
Anthozoa	5	114
Mollusca : Bivalvia		
Ensis directus	2	45
Mercenaria mercenaria	3	68
Mulinia lateralis	2	45
Tellina agilis	53	1205
Mollusca : Gastropoda		
Acteocina canaliculata	2	45
Rictaxis punctostriatus	1	23
Turbonilla interrupta (Epi.)	1	23
Nemertina		
Nemertina	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
MARYLAND COASTAL BAYS
BENTHIC TAXA INFORMATION

(Station: MD04-11 Contd.)

TAXA	Count	Abundance (#/m2)
Phoronida		
<i>Phoronis</i> spp.	1	23
===== Number of Taxa w/ Epi.	29	
Number of Taxa w/o Epi.	24	
Total Count w/ Epi.	124	
Total Count w/o Epi.	119	
Total Abundance w/ Epi.		2818
Total Abundance w/o Epi.		2705
=====		

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-12

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	19	432
Annelida : Polychaeta		
Apopriionospio pygmaea	1	23
Aricidea catherinae	4	91
Brania clavata	1	23
Demonax microphthalmus	4	91
Exogone dispar	4	91
Glycinde solitaria	3	68
Leitoscoloplos robustus	1	23
Mediomastus ambiseta	99	2250
Mediomastus spp. *	33	750
Notocirrus spiniferus	1	23
Parapriionospio pinnata	1	23
Phyllodoce arenae	1	23
Polydora cornuta	28	636
Scolelepis bousfieldi	1	23
Tharyx sp. A Morris	24	545
Arthropoda : Amphipoda		
Ampelisca abdita	31	705
Ampelisca vadorum	12	273
Ampelisca verrilli	26	591
Apocorophium acutum (Epi.)	1	23
Batea catharinensis (Epi.)	23	523
Cerapus tubularis (Epi.)	17	386
Elasmopus laevis (Epi.)	10	227
Eobrolgus spinosus	1	23
Ericthonius brasiliensis (Epi.)	1	23
Listriella barnardi	4	91
Paracaprella tenuis (Epi.)	3	68
Photis pugnator (Epi.)	3	68
Stenothoe georgiana (Epi.)	1	23
Arthropoda : Decapoda		
Dyspanopeus sayi (Epi.)	1	23
Arthropoda : Isopoda		
Edotea triloba (Epi.)	1	23
Erichsonella filiformis (Epi.)	2	45

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-12 Contd.)

TAXA	Count	Abundance (#/m2)
Arthropoda : Mysidacea <i>Americanysis bahia</i> (Epi.)	1	23
Arthropoda : Pycnogonida <i>Achelia spinosa</i> (Epi.)	1	23
<i>Callipallene brevirostris</i> (Epi.)	1	23
Chordata : Ascidiacea <i>Ascidiaeae</i> (Epi.)	5	114
Cnidaria : Anthozoa <i>Anthozoa</i>	1	23
<i>Edwardsia elegans</i>	4	91
Echinodermata : Holothuroidea <i>Leptosynapta tenuis</i>	1	23
Mollusca : Bivalvia <i>Anadara transversa</i>	1	23
<i>Mercenaria mercenaria</i>	1	23
<i>Tellina agilis</i>	3	68
Mollusca : Gastropoda <i>Acteocina canaliculata</i>	1	23
<i>Astyris lunata</i> (Epi.)	2	45
<i>Odostomia engonia</i> (Epi.)	4	91
<i>Rictaxis punctostriatus</i>	3	68
Nemertina <i>Nemertina</i>	4	91
=====		
Number of Taxa w/ Epi.	46	
Number of Taxa w/o Epi.	29	
Total Count w/ Epi.	395	
Total Count w/o Epi.	318	
Total Abundance w/ Epi.		8977
Total Abundance w/o Epi.		7227
=====		

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-13		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	11	250
Annelida : Polychaeta		
Amastigos caperatus	4	91
Apoprinospio pygmaea	1	23
Aricidea catherinae	11	250
Capitella capitata complex	2	45
Exogone dispar	1	23
Glycera spp.	1	23
Glycinde solitaria	1	23
Mediomastus ambiseta	25	568
Phyllodoce arenae	3	68
Streblospio benedicti	21	477
Tharyx sp. A Morris	32	727
Arthropoda : Amphipoda		
Ampelisca abdita	10	227
Ampelisca spp. *	19	432
Ampelisca verrilli	45	1023
Batea catharinensis (Epi.)	2	45
Listriella barnardi	1	23
Arthropoda : Cumacea		
Oxyurostylis smithi	1	23
Arthropoda : Mysidacea		
Americamysis bigelowi (Epi.)	1	23
Cnidaria : Anthozoa		
Anthozoa	2	45
Echinodermata : Holothuroidea		
Leptosynapta tenuis	3	68
Mollusca : Bivalvia		
Gemma gemma	3	68
Tellina agilis	2	45
Mollusca : Gastropoda		
Nudibranchia (Epi.)	1	23
Rictaxis punctostriatus	2	45
Nemertina		
Nemertina	1	23
Number of Taxa w/ Epi.	25	
Number of Taxa w/o Epi.	22	

NATIONAL COASTAL ASSESSMENT 2004
MARYLAND COASTAL BAYS
BENTHIC TAXA INFORMATION

(Station: MD04-13 Contd.)

TAXA	Count	Abundance (#/m2)
Total Count w/ Epi.	206	
Total Count w/o Epi.	202	
Total Abundance w/ Epi.		4682
Total Abundance w/o Epi.		4591

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-14

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	24	545
Annelida : Polychaeta		
Carazziella hobsonae	3	68
Glycera americana	5	114
Leitoscoloplos robustus	2	45
Mediomastus ambiseta	65	1477
Mediomastus spp. *	154	3500
Melinna maculata	1	23
Notomastus sp. A Ewing	6	136
Parapriionospio pinnata	2	45
Sabaco elongatus	2	45
Scoletoma tenuis	18	409
Spiochaetopterus costarum	2	45
Streblospio benedicti	5	114
Arthropoda : Amphipoda		
Ampelisca abdita	19	432
Elasmopus laevis (Epi.)	3	68
Listriella barnardi	12	273
Lysianopsis alba	2	45
Arthropoda : Cumacea		
Leucon americanus	5	114
Arthropoda : Isopoda		
Cyathura burbancki	3	68
Mollusca : Bivalvia		
Mulinia lateralis	5	114
Tagelus divisus	4	91
Mollusca : Gastropoda		
Acteocina canaliculata	5	114
Turbonilla spp. (Epi.)	8	182
Phoronida		
Phoronis spp.	1	23
Number of Taxa w/ Epi.	23	
Number of Taxa w/o Epi.	21	
Total Count w/ Epi.	356	
Total Count w/o Epi.	345	
Total Abundance w/ Epi.		8091
Total Abundance w/o Epi.		7841

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-15

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	8	182
Annelida : Polychaeta		
Aricidea catherinae	15	341
Clymenella torquata	1	23
Cossura sp. A Maciolek	3	68
Euclymene zonalis	9	205
Eumida sanguinea	2	45
Exogone dispar	23	523
Glycera americana	5	114
Glycinde solitaria	7	159
Mediomastus ambiseta	23	523
Mediomastus californiensis	16	364
Mediomastus spp. *	212	4818
Odontosyllis fulgorans (Epi.)	2	45
Parapionosyllis longicirrata	24	545
Pista palmata	5	114
Podarke obscura	5	114
Polycirrus eximius	24	545
Sabaco elongatus	1	23
Sphaerosyllis brevidentata	5	114
Spiochaetopterus costarum	2	45
Tharyx sp. A Morris	7	159
Arthropoda : Amphipoda		
Ampelisca abdita	18	409
Ampelisca spp. *	6	136
Ampelisca vadorum	6	136
Ampelisca verrilli	5	114
Batea catharinensis (Epi.)	14	318
Cerapus tubularis (Epi.)	3	68
Elasmopus laevis (Epi.)	3	68
Eobrolgus spinosus	5	114
Monocorophium tuberculatum (Epi.)	12	273
Paracaprella tenuis (Epi.)	3	68
Unciola serrata	4	91
Arthropoda : Cumacea		
Oxyurostylis smithi	3	68

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-15 Contd.)

TAXA	Count	Abundance (#/m2)
Arthropoda : Isopoda <i>Cyathura burbancki</i>	1	23
Cnidaria : Anthozoa Anthozoa	5	114
Echinodermata : Holothuroidea <i>Pentamera pulcherrima</i>	5	114
Mollusca : Bivalvia <i>Anomia simplex</i> (Epi.)	4	91
<i>Mercenaria mercenaria</i>	5	114
<i>Mulinia lateralis</i>	3	68
<i>Pitar morrhuanus</i>	4	91
<i>Tagelus divisus</i>	8	182
<i>Tellina agilis</i>	5	114
Mollusca : Gastropoda <i>Acteocina canaliculata</i>	18	409
<i>Crepidula fornicata</i> (Epi.)	4	91
<i>Nassarius vibex</i>	2	45
<i>Rictaxis punctostriatus</i>	8	182
Nemertina <i>Amphiporus bioculatus</i>	3	68
Phoronida <i>Phoronis spp.</i>	3	68
===== Number of Taxa w/ Epi.	46	
Number of Taxa w/o Epi.	38	
Total Count w/ Epi.	559	
Total Count w/o Epi.	514	
Total Abundance w/ Epi.		12705
Total Abundance w/o Epi.		11682

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-16

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	29	659
Annelida : Polychaeta		
Brania clavata	1	23
Ceratonereis irritabilis	2	45
Clymenella torquata	13	295
Euclymenae zonalis	14	318
Exogone dispar	7	159
Glycera americana	4	91
Glycinde solitaria	5	114
Mediomastus ambiseta	39	886
Mediomastus californiensis	1	23
Mediomastus spp. *	301	6841
Melinna maculata	1	23
Notomastus sp. A Ewing	5	114
Parapriionospio pinnata	2	45
Podarkeopsis levifuscina	4	91
Polydora cornuta	3	68
Prionospio heterobranchia	1	23
Scoletoma tenuis	3	68
Sphaerosyllis brevidentata	3	68
Streblospio benedicti	1	23
Arthropoda : Amphipoda		
Ampelisca abdita	217	4932
Ampelisca vadorum	1	23
Ampelisca verrilli	18	409
Batea catharinensis (Epi.)	2	45
Cerapus tubularis (Epi.)	1	23
Ericthonius brasiliensis (Epi.)	13	295
Listriella barnardi	9	205
Microprotopus raneyi (Epi.)	7	159
Monocorophium acherusicum (Epi.)	1	23
Monocorophium tuberculatum (Epi.)	29	659
Arthropoda : Cumacea		
Oxyurostylis smithi	1	23
Arthropoda : Isopoda		
Cyathura burbancki	4	91

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-16 Contd.)

TAXA	Count	Abundance (#/m2)
Edotea triloba (Epi.)	2	45
Arthropoda : Pycnogonida		
Anoplodactylus petiolatus (Epi.)	1	23
Cnidaria : Anthozoa		
Edwardsia elegans	2	45
Echinodermata : Holothuroidea		
Leptosynapta tenuis	2	45
Mollusca : Bivalvia		
Mulinia lateralis	6	136
Tagelus divisus	10	227
Tellina spp.	1	23
Mollusca : Gastropoda		
Acteocina canaliculata	10	227
Rictaxis punctostriatus	4	91
Nemertina		
Nemertina	1	23
=====	=====	=====
Number of Taxa w/ Epi.	41	
Number of Taxa w/o Epi.	33	
Total Count w/ Epi.	781	
Total Count w/o Epi.	725	
Total Abundance w/ Epi.		17750
Total Abundance w/o Epi.		16477

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-17		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	1	23
Annelida : Polychaeta		
Aricidea catherinæ	7	159
Caulleriella spp.	3	68
Dispio uncinata	2	45
Leitoscoloplos spp.	3	68
Levinsenia gracilis	1	23
Mediomastus ambisetæ	2	45
Nereididae	1	23
Scolelepis texana	1	23
Tharyx sp. A Morris	1	23
Arthropoda : Amphipoda		
Acanthohaustorius millsii	2	45
Americhelidium americanum	2	45
Microdeutopus gryllotalpa (Epi.)	2	45
Microprotopus raneyi (Epi.)	1	23
Protohaustorius cf. deichmannae	5	114
Arthropoda : Tanaidacea		
Tanaissus psammophilus	1	23
Cnidaria : Anthozoa		
Anthozoa	1	23
Mollusca : Bivalvia		
Spisula solidissima	1	23
Tellina agilis	104	2364
Mollusca : Gastropoda		
Natica pusilla	2	45
Platyhelminthes : Turbellaria		
Turbellaria (Epi.)	1	23
Number of Taxa w/ Epi.	21	
Number of Taxa w/o Epi.	18	
Total Count w/ Epi.	144	
Total Count w/o Epi.	140	
Total Abundance w/ Epi.		3273
Total Abundance w/o Epi.		3182

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-18		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	52	1182
Annelida : Polychaeta		
Brania clavata	3	68
Ceratonereis irritabilis	4	91
Clymenella torquata	5	114
Euclymene zonalis	7	159
Exogone dispar	8	182
Glycera americana	1	23
Glycinde solitaria	3	68
Leitoscoloplos robustus	2	45
Mediomastus ambiseta	31	705
Mediomastus californiensis	3	68
Mediomastus spp. *	243	5523
Melinna maculata	3	68
Notomastus sp. A Ewing	9	205
Paraprionospio pinnata	1	23
Polydora cornuta	5	114
Prionospio heterobranchia	2	45
Scoletoma tenuis	7	159
Sphaerosyllis brevidentata	4	91
Streblospio benedicti	9	205
Arthropoda : Amphipoda		
Ampelisca abdita	154	3500
Ampelisca spp. *	58	1318
Ampelisca vadorum	2	45
Ampelisca verrilli	5	114
Batea catharinensis (Epi.)	3	68
Cerapus tubularis (Epi.)	5	114
Ericthonius brasiliensis (Epi.)	8	182
Listriella barnardi	5	114
Lysianopsis alba	2	45
Microprotopus raneyi (Epi.)	5	114
Monocorophium tuberculatum (Epi.)	15	341
Arthropoda : Isopoda		
Cyathura burbancki	8	182
Edotea triloba (Epi.)	2	45

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-18 Contd.)

TAXA	Count	Abundance (#/m2)
Echinodermata : Holothuroidea Leptosynapta tenuis	2	45
Mollusca : Bivalvia Mulinia lateralis	12	273
Tagelus divisus	3	68
Tellina agilis	3	68
Mollusca : Gastropoda Acteocina canaliculata	7	159
Rictaxis punctostriatus	6	136
Number of Taxa w/ Epi.	37	
Number of Taxa w/o Epi.	31	
Total Count w/ Epi.	707	
Total Count w/o Epi.	669	
Total Abundance w/ Epi.		16068
Total Abundance w/o Epi.		15204

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-19		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Heteromastus filiformis	12	273
Laeonereis culveri	2	45
Leitoscoloplos robustus	10	227
Podarkeopsis levifuscina	1	23
Streblospio benedicti	1	23
Number of Taxa w/ Epi.	5	
Number of Taxa w/o Epi.	5	
Total Count w/ Epi.	26	
Total Count w/o Epi.	26	
Total Abundance w/ Epi.		591
Total Abundance w/o Epi.		591

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-20		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Dero spp.	2	45
Limnodrilus hoffmeisteri	48	1091
Paranais litoralis	4	91
Pristina spp.	2	45
Pristinella jenkinae	2	45
Tubificidae imm. with capilliform chaeta	6	136
Tubificidae imm. without capilliform cha *	56	1273
Annelida : Polychaeta		
Hobsonia florida	28	636
Mediomastus spp.	4	91
Arthropoda : Chironomidae		
Chironomidae pupae *	3	68
Chironomus spp.	4	91
Cryptochironomus spp.	4	91
Dicrotendipes spp.	14	318
Polypedilum halterale group	6	136
Tanytarsus spp.	8	182
Tribelos jucundus	2	45
Arthropoda : Pycnogonida		
Anoplodactylus petiolatus (Epi.)	1	23
Number of Taxa w/ Epi.	16	
Number of Taxa w/o Epi.	14	
Total Count w/ Epi.	194	
Total Count w/o Epi.	193	
Total Abundance w/ Epi.		4409
Total Abundance w/o Epi.		4386

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-21		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
<i>Mediomastus ambiseta</i>	6	136
<i>Neanthes succinea</i>	8	182
<i>Streblospio benedicti</i>	7	159
Mollusca : Bivalvia		
<i>Gemma gemma</i>	3	68
Nemertina		
<i>Nemertina</i>	9	205
Number of Taxa w/ Epi.	5	
Number of Taxa w/o Epi.	5	
Total Count w/ Epi.	33	
Total Count w/o Epi.	33	
Total Abundance w/ Epi.		750
Total Abundance w/o Epi.		750

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-22		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
<i>Leitoscoloplos robustus</i>	5	114
<i>Neanthes succinea</i>	1	23
<i>Podarkeopsis levifuscina</i>	3	68
<i>Streblospio benedicti</i>	1	23
Nemertina		
<i>Nemertina</i>	13	295
Number of Taxa w/ Epi.	5	
Number of Taxa w/o Epi.	5	
Total Count w/ Epi.	23	
Total Count w/o Epi.	23	
Total Abundance w/ Epi.		523
Total Abundance w/o Epi.		523

NATIONAL COASTAL ASSESSMENT 2004
MARYLAND COASTAL BAYS
BENTHIC TAXA INFORMATION

STATION : MD04-23		
TAXA	Count	Abundance (#/m2)
Miscellanea		
No Organisms Present		
Number of Taxa w/ Epi.	1	
Number of Taxa w/o Epi.	1	
Total Count w/ Epi.		
Total Count w/o Epi.		
Total Abundance w/ Epi.		
Total Abundance w/o Epi.		

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-24		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta Oligochaeta	1	23
Annelida : Polychaeta Heteromastus filiformis	1	23
Melinna maculata	5	114
Neanthes succinea	5	114
Scoletoma tenuis	1	23
Spiochaetopterus costarum	1	23
Streblospio benedicti	7	159
Mollusca : Bivalvia Gemma gemma	1	23
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	8	
Total Count w/ Epi.	22	
Total Count w/o Epi.	22	
Total Abundance w/ Epi.		500
Total Abundance w/o Epi.		500

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-25		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Pristinella jenkiniae	1	23
Tubificidae imm. without capilliform cha	2	45
Annelida : Polychaeta		
Hobsonia florida	1	23
Polygordius spp.	2	45
Number of Taxa w/ Epi.	4	
Number of Taxa w/o Epi.	4	
Total Count w/ Epi.	6	
Total Count w/o Epi.	6	
Total Abundance w/ Epi.		136
Total Abundance w/o Epi.		136

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-26		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta Tubificidae imm. without capilliform cha	5	114
Annelida : Polychaeta Capitella capitata complex	1	23
Streblospio benedicti	4	91
Number of Taxa w/ Epi.	3	
Number of Taxa w/o Epi.	3	
Total Count w/ Epi.	10	
Total Count w/o Epi.	10	
Total Abundance w/ Epi.		227
Total Abundance w/o Epi.		227

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-27		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Eteone foliosa	3	68
Glycinde solitaria	3	68
Heteromastus filiformis	5	114
Leitoscoloplos robustus	2	45
Mediomastus spp.	11	250
Melinna maculata	1	23
Notomastus sp. A Ewing	5	114
Paraprionospio pinnata	5	114
Podarkeopsis levifuscina	8	182
Scoletoma tenuis	6	136
Streblospio benedicti	15	341
Arthropoda : Amphipoda		
Ampelisca abdita	45	1023
Batea catharinensis (Epi.)	2	45
Lysianopsis alba	5	114
Arthropoda : Decapoda		
Ogyrides alphaerostris	1	23
Mollusca : Bivalvia		
Tellina agilis	6	136
Nemertina		
Nemertina	2	45
Number of Taxa w/ Epi.	17	
Number of Taxa w/o Epi.	16	
Total Count w/ Epi.	125	
Total Count w/o Epi.	123	
Total Abundance w/ Epi.		2841
Total Abundance w/o Epi.		2795

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-28

TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Carazziella hobsonae	4	91
Cossura sp. A Maciolek	1	23
Demonax microphthalmus	43	977
Dorvillea rudolphi	2	45
Euclymenae zonalis	1	23
Exogone dispar	4	91
Glycinde solitaria	3	68
Mediomastus ambiseta	21	477
Mediomastus californiensis	5	114
Mediomastus spp. *	131	2977
Neanthes succinea	9	205
Notomastus sp. A Ewing	9	205
Parapriionospio pinnata	1	23
Podarkeopsis levifuscina	3	68
Polydora cornuta	8	182
Sabaco elongatus	10	227
Scoletoma tenuis	16	364
Sphaerosyllis brevidentata	1	23
Spiochaetopterus costarum	3	68
Streblospio benedicti	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	8	182
Ampelisca vadorum	1	23
Cerapus tubularis (Epi.)	1	23
Elasmopus laevis (Epi.)	12	273
Ericthonius brasiliensis (Epi.)	3	68
Listriella barnardi	30	682
Lysianopsis alba	8	182
Monocorophium tuberculatum (Epi.)	41	932
Arthropoda : Cumacea		
Leucon americanus	3	68
Arthropoda : Isopoda		
Edotea triloba (Epi.)	1	23
Arthropoda : Pycnogonida		
Anoplodactylus petiolatus (Epi.)	8	182
Callipallene brevirostris (Epi.)	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-28 Contd.)

TAXA	Count	Abundance (#/m2)
Mollusca : Bivalvia		
<i>Macoma tenta</i>	1	23
<i>Mulinia lateralis</i>	3	68
<i>Tagelus divisus</i>	5	114
<i>Tellinidae *</i>	2	45
Mollusca : Gastropoda		
<i>Acteocina canaliculata</i>	1	23
<i>Gastropoda *</i>	1	23
<i>Turbanilla spp. (Epi.)</i>	16	364
Nemertina		
<i>Amphiporus bioculatus</i>	1	23
Phoronida		
<i>Phoronis spp.</i>	1	23
===== Number of Taxa w/ Epi.	38	
Number of Taxa w/o Epi.	30	
Total Count w/ Epi.	427	
Total Count w/o Epi.	343	
Total Abundance w/ Epi.		9705
Total Abundance w/o Epi.		7795
=====		

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-29		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Eteone foliosa	1	23
Glycinde solitaria	2	45
Heteromastus filiformis	2	45
Leitoscoloplos robustus	6	136
Mediomastus spp.	1	23
Melinna maculata	1	23
Neanthes succinea	12	273
Parapriionospio pinnata	1	23
Podarkeopsis levifuscina	9	205
Sabaco elongatus	1	23
Scoletoma tenuis	4	91
Streblospio benedicti	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	63	1432
Lysianopsis alba	11	250
Mollusca : Bivalvia		
Tellina agilis	1	23
Nemertina	2	45
Number of Taxa w/ Epi.	16	
Number of Taxa w/o Epi.	16	
Total Count w/ Epi.	121	
Total Count w/o Epi.	121	
Total Abundance w/ Epi.		2750
Total Abundance w/o Epi.		2750

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-30		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
<i>Podarkeopsis levifuscina</i>	9	205
<i>Streblospio benedicti</i>	13	295
Arthropoda : Cumacea		
<i>Leucon americanus</i>	1	23
Nemertina		
<i>Nemertina</i>	1	23
Number of Taxa w/ Epi.	4	
Number of Taxa w/o Epi.	4	
Total Count w/ Epi.	24	
Total Count w/o Epi.	24	
Total Abundance w/ Epi.		545
Total Abundance w/o Epi.		545

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-31		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Tubificidae imm. with capilliform chaeta	220	5000
Tubificidae imm. without capilliform cha	340	7727
Annelida : Polychaeta		
Cabira incerta	1	23
Mediomastus spp.	1	23
Arthropoda : Chironomidae		
Chironomus spp.	2	45
Harnischia spp.	4	91
Polypedilum halterale group	2	45
Polypedilum illinoense group	2	45
Tanytarsus spp.	6	136
Tribelos jucundus	18	409
Arthropoda : Diptera		
Bezzia spp.	1	23
Chaoborus punctipennis	5	114
Mollusca : Bivalvia		
Musculium spp.	1	23
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	13	
Total Count w/ Epi.	603	
Total Count w/o Epi.	603	
Total Abundance w/ Epi.		13705
Total Abundance w/o Epi.		13705

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-32		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta Tubificidae imm. without capilliform cha	57	1295
Annelida : Polychaeta Hobsonia florida	74	1682
Laeonereis culveri	128	2909
Neanthes succinea	2	45
Arthropoda : Amphipoda Gammarus spp. (Epi.)	12	273
Leptocheirus plumulosus	44	1000
Arthropoda : Chironomidae Chironomus spp.	3	68
Arthropoda : Diptera Bezzia spp.	1	23
Arthropoda : Isopoda Cyathura spp.	12	273
Edotea triloba (Epi.)	5	114
Arthropoda : Tanaidacea Hargeria rapax	1	23
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	9	
Total Count w/ Epi.	339	
Total Count w/o Epi.	322	
Total Abundance w/ Epi.		7705
Total Abundance w/o Epi.		7318

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-33		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta Oligochaeta	77	1750
Annelida : Polychaeta Heteromastus filiformis	22	500
Hobsonia florida	17	386
Laeonereis culveri	47	1068
Streblospio benedicti	13	295
Arthropoda : Amphipoda Leptocheirus plumulosus	384	8727
Melita nitida (Epi.)	9	205
Monocorophium tuberculatum (Epi.)	3	68
Arthropoda : Isopoda Cyathura spp.	14	318
Edotea triloba (Epi.)	5	114
Nemertina Nemertina	15	341
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	8	
Total Count w/ Epi.	606	
Total Count w/o Epi.	589	
Total Abundance w/ Epi.		13773
Total Abundance w/o Epi.		13386

NATIONAL COASTAL ASSESSMENT 2004
MARYLAND COASTAL BAYS
BENTHIC TAXA INFORMATION

STATION : MD04-34		
TAXA	Count	Abundance (#/m2)
Arthropoda : Chironomidae Procladius spp.	1	23
Number of Taxa w/ Epi.	1	
Number of Taxa w/o Epi.	1	
Total Count w/ Epi.	1	
Total Count w/o Epi.	1	
Total Abundance w/ Epi.		23
Total Abundance w/o Epi.		23

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-35		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Boccardiella ligerica	2	45
Hobsonia florida	46	1045
Laeonereis culveri	32	727
Arthropoda : Amphipoda		
Apocorophium acutum (Epi.)	5	114
Gammarus daiberi (Epi.)	1	23
Leptocheirus plumulosus	3	68
Arthropoda : Chironomidae		
Chironomus spp.	34	773
Arthropoda : Isopoda		
Paracerceis caudata (Epi.)	1	23
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	5	
Total Count w/ Epi.	124	
Total Count w/o Epi.	117	
Total Abundance w/ Epi.		2818
Total Abundance w/o Epi.		2659

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-36		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	24	545
Annelida : Polychaeta		
Brania clavata	2	45
Carazzziella hobsonae	3	68
Ceratonereis irritabilis	5	114
Clymenella torquata	3	68
Diopatra cuprea	1	23
Euclymene zonalis	5	114
Exogone dispar	8	182
Glycera americana	6	136
Glycinde solitaria	3	68
Mediomastus ambiseta	3	68
Mediomastus spp. *	98	2227
Melinna maculata	2	45
Notomastus sp. A Ewing	7	159
Paraprionospio pinnata	4	91
Podarkeopsis levifuscina	3	68
Polydora cornuta	5	114
Sabaco elongatus	5	114
Scoletoma tenuis	7	159
Sphaerosyllis brevidentata	3	68
Spiochaetopterus costarum	3	68
Streblospio benedicti	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	24	545
Ampelisca vadorum	3	68
Ampelisca verrilli	2	45
Listriella barnardi	15	341
Lysianopsis alba	2	45
Monocorophium tuberculatum (Epi.)	24	545
Rhepoxynius hudsoni	3	68
Unciola serrata	4	91
Arthropoda : Cumacea		
Leucon americanus	2	45
Arthropoda : Isopoda		
Cyathura burbancki	2	45

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-36 Contd.)

TAXA	Count	Abundance (#/m2)
Edotea triloba (Epi.)	3	68
Mollusca : Bivalvia		
Mulinia lateralis	5	114
Tagelus divisus	4	91
Tellina agilis	1	23
Mollusca : Gastropoda		
Turbonilla interrupta (Epi.)	5	114
Phoronida		
Phoronis spp.	3	68
Platyhelminthes : Turbellaria		
Turbellaria (Epi.)	1	23
Number of Taxa w/ Epi.	38	
Number of Taxa w/o Epi.	34	
Total Count w/ Epi.	307	
Total Count w/o Epi.	274	
Total Abundance w/ Epi.		6977
Total Abundance w/o Epi.		6227

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-37		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	4	91
Annelida : Polychaeta		
Cabira incerta	1	23
Carazziella hobsonae	4	91
Ceratonereis irritabilis	1	23
Clymenella torquata	2	45
Demonax microphthalmus	2	45
Diopatra cuprea	2	45
Euclymene zonalis	6	136
Glycera americana	2	45
Glycinde solitaria	1	23
Mediomastus spp.	131	2977
Melinna maculata	3	68
Notomastus sp. A Ewing	7	159
Parapriionospio pinnata	15	341
Pista cristata	1	23
Podarkeopsis levifuscina	6	136
Sabaco elongatus	4	91
Scoletoma tenuis	6	136
Arthropoda : Amphipoda		
Ampelisca abdita	15	341
Ampelisca vadorum	2	45
Ampelisca verrilli	2	45
Listriella barnardi	23	523
Unciola serrata	2	45
Arthropoda : Isopoda		
Cyathura burbancki	3	68
Cnidaria : Anthozoa		
Edwardsia elegans	2	45
Mollusca : Bivalvia		
Macoma tenta	3	68
Tagelus divisus	4	91
Mollusca : Gastropoda		
Acteocina canaliculata	1	23
Gastropoda *	2	45
Rictaxis punctostriatus	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-37 Contd.)

TAXA	Count	Abundance (#/m2)
Turbonilla spp. (Epi.)	4	91
Phoronida		
Phoronis spp.	10	227
Number of Taxa w/ Epi.	31	
Number of Taxa w/o Epi.	30	
Total Count w/ Epi.	272	
Total Count w/o Epi.	266	
Total Abundance w/ Epi.		6182
Total Abundance w/o Epi.		6045

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-38		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	17	386
Annelida : Polychaeta		
Carazziella hobsonae	5	114
Ceratonereis irritabilis	1	23
Clymenella torquata	4	91
Diopatra cuprea	2	45
Euclymene zonalis	2	45
Exogone dispar	10	227
Glycera americana	2	45
Glycinde solitaria	2	45
Mediomastus ambiseta	2	45
Mediomastus californiensis	1	23
Mediomastus spp. *	194	4409
Melinna maculata	2	45
Notomastus sp. A Ewing	7	159
Paraprionospio pinnata	6	136
Pectinaria gouldii	1	23
Podarkeopsis levifuscina	7	159
Polydora cornuta	2	45
Sabaco elongatus	6	136
Scoletoma tenuis	5	114
Spiochaetopterus costarum	3	68
Arthropoda : Amphipoda		
Ampelisca abdita	22	500
Ampelisca vadorum	2	45
Ampelisca verrilli	1	23
Listriella barnardi	34	773
Monocorophium tuberculatum (Epi.)	17	386
Unciola serrata	6	136
Arthropoda : Cumacea		
Leucon americanus	3	68
Arthropoda : Isopoda		
Cyathura burbancki	2	45
Edotea triloba (Epi.)	1	23
Mollusca : Bivalvia		
Macoma tenta	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-38 Contd.)

TAXA	Count	Abundance (#/m2)
Mulinia lateralis	3	68
Tagelus divisus	1	23
Mollusca : Gastropoda		
Turbonilla spp. (Epi.)	4	91
Phoronida		
Phoronis spp.	1	23
Platyhelminthes : Turbellaria		
Turbellaria (Epi.)	1	23
===== Number of Taxa w/ Epi.	35	
Number of Taxa w/o Epi.	31	
Total Count w/ Epi.	380	
Total Count w/o Epi.	357	
Total Abundance w/ Epi.		8636
Total Abundance w/o Epi.		8114
=====		

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-39		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
<i>Displo uncinata</i>	3	68
<i>Leitoscoloplos</i> spp.	1	23
<i>Spiophanes bombyx</i>	1	23
<i>Tharyx</i> sp. A Morris	1	23
Arthropoda : Amphipoda		
<i>Acanthohaustorius millsii</i>	4	91
<i>Americhelidium americanum</i>	1	23
<i>Protohaustorius</i> cf. <i>deichmannae</i>	17	386
Arthropoda : Cumacea		
<i>Oxyurostylis smithi</i>	1	23
Arthropoda : Isopoda		
<i>Chiridotea almyra</i>	1	23
Mollusca : Bivalvia		
<i>Tellina agilis</i>	7	159
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	10	
Total Count w/ Epi.	37	
Total Count w/o Epi.	37	
Total Abundance w/ Epi.		841
Total Abundance w/o Epi.		841

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-40		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta Oligochaeta	2	45
Annelida : Polychaeta Leitoscoloplos robustus	88	2000
Mediomastus ambiseta	1	23
Mediomastus spp. *	2	45
Microphtalmus aggregatus	2	45
Neanthes succinea	1	23
Paraonis fulgens	26	591
Streptosyllis pettiboneae	3	68
Tharyx sp. A Morris	6	136
Arthropoda : Amphipoda Ameroculodes species complex	1	23
Mollusca : Bivalvia Donax variabilis	24	545
Gemma gemma	1	23
Petricola pholadiformis	1	23
Spisula solidissima	8	182
Tellina agilis	40	909
Nemertina Nemertina	1	23
Number of Taxa w/ Epi.	15	
Number of Taxa w/o Epi.	15	
Total Count w/ Epi.	207	
Total Count w/o Epi.	207	
Total Abundance w/ Epi.		4705
Total Abundance w/o Epi.		4705

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-41		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	23	523
Annelida : Polychaeta		
Glycera americana	3	68
Mediomastus ambiseta	10	227
Mediomastus spp. *	45	1023
Parapriionospio pinnata	2	45
Polydora cornuta	9	205
Streblospio benedicti	20	455
Arthropoda : Amphipoda		
Ampelisca abdita	3	68
Listriella barnardi	1	23
Arthropoda : Cumacea		
Cyclaspis varians	1	23
Arthropoda : Isopoda		
Edotea triloba (Epi.)	1	23
Cnidaria : Anthozoa		
Anthozoa	1	23
Mollusca : Bivalvia		
Mulinia lateralis	5	114
Tagelus divisus	2	45
Tellina agilis	17	386
Mollusca : Gastropoda		
Acteocina canaliculata	3	68
Crepidula fornicate (Epi.)	2	45
Number of Taxa w/ Epi.	16	
Number of Taxa w/o Epi.	14	
Total Count w/ Epi.	148	
Total Count w/o Epi.	145	
Total Abundance w/ Epi.		3364
Total Abundance w/o Epi.		3295

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-42

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	17	386
Annelida : Polychaeta		
Ceratonereis irritabilis	12	273
Clymenella torquata	1	23
Demonax microphthalmus	3	68
Diopatra cuprea	8	182
Dorvillea rudolphi	2	45
Euclymene zonalis	7	159
Eumida sanguinea	3	68
Exogone dispar	21	477
Glycera americana	3	68
Heteromastus filiformis	6	136
Mediomastus ambiseta	43	977
Mediomastus spp. *	465	10568
Neanthes succinea	3	68
Pectinaria gouldii	1	23
Polydora cornuta	4	91
Prionospio heterobranchia	1	23
Scoloplos rubra	3	68
Sphaerosyllis brevidentata	6	136
Streblospio benedicti	16	364
Streptosyllis varians	1	23
Tharyx sp. A Morris	9	205
Arthropoda : Amphipoda		
Ameroculodes species complex	1	23
Ampelisca abdita	4	91
Ampelisca verrilli	4	91
Cerapus tubularis (Epi.)	18	409
Elasmopus laevis (Epi.)	1	23
Listriella barnardi	3	68
Unciola serrata	5	114
Arthropoda : Cumacea		
Cyclaspis varians	1	23
Oxyurostylis smithi	1	23
Arthropoda : Isopoda		
Edotea triloba (Epi.)	4	91

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-42 Contd.)

TAXA	Count	Abundance (#/m2)
Cnidaria : Anthozoa		
Anthozoa	3	68
Edwardsia elegans	2	45
Echinodermata : Holothuroidea		
Leptosynapta tenuis	3	68
Pentamera pulcherrima	9	205
Mollusca : Bivalvia		
Lyonsia hyalina	2	45
Mercenaria mercenaria	2	45
Mulinia lateralis	16	364
Tagelus divisus	19	432
Tellina agilis	31	705
Mollusca : Gastropoda		
Acteocina canaliculata	1	23
Crepidula fornicata (Epi.)	3	68
Crepidula spp. *	1	23
Odostomia engonia (Epi.)	1	23
Rictaxis punctostriatus	9	205
Nemertina		
Amphiporus bioculatus	5	114
Platyhelminthes : Turbellaria		
Turbellaria (Epi.)	1	23
===== Number of Taxa w/ Epi.	46	
Number of Taxa w/o Epi.	40	
Total Count w/ Epi.	785	
Total Count w/o Epi.	756	
Total Abundance w/ Epi.		17841
Total Abundance w/o Epi.		17182

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-43

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	17	386
Annelida : Polychaeta		
Carazziella hobsonae	14	318
Ceratonereis irritabilis	7	159
Clymenella torquata	8	182
Diopatra cuprea	1	23
Dorvillea rudolphi	1	23
Euclymene zonalis	19	432
Exogone dispar	2	45
Glycera americana	3	68
Mediomastus ambiseta	11	250
Mediomastus spp. *	200	4545
Melinna maculata	4	91
Notomastus sp. A Ewing	3	68
Paraprionospio pinnata	4	91
Podarkeopsis levifuscina	3	68
Sabaco elongatus	4	91
Spiochaetopterus costarum	2	45
Streblospio benedicti	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	1	23
Batea catharinensis (Epi.)	1	23
Cerapus tubularis (Epi.)	1	23
Listriella barnardi	22	500
Arthropoda : Decapoda		
Ogyrides alphaerostris	3	68
Cnidaria : Anthozoa		
Edwardsia elegans	4	91
Echinodermata : Holothuroidea		
Leptosynapta tenuis	2	45
Mollusca : Bivalvia		
Aligena elevata	1	23
Macoma tenta	2	45
Mulinia lateralis	2	45
Tagelus divisus	12	273
Tellina agilis	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-43 Contd.)

TAXA	Count	Abundance (#/m2)
Mollusca : Gastropoda		
Acteocina canaliculata	8	182
Gastropoda (Epi.)	1	23
Turbonilla interrupta (Epi.)	45	1023
Nemertina		
Amphiporus bioculatus	1	23
Nemertina	2	45
Phoronida		
Phoronis spp.	2	45
=====	=====	=====
Number of Taxa w/ Epi.	35	
Number of Taxa w/o Epi.	31	
Total Count w/ Epi.	418	
Total Count w/o Epi.	370	
Total Abundance w/ Epi.		9500
Total Abundance w/o Epi.		8409

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-44

TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Clymenella torquata	12	273
Euclymene zonalis	15	341
Glycinde solitaria	2	45
Heteromastus filiformis	6	136
Leitoscoloplos spp.	1	23
Mediomastus ambiseta	25	568
Melinna maculata	17	386
Notomastus sp. A Ewing	14	318
Parapriionospio pinnata	3	68
Podarkeopsis levifuscina	9	205
Sabaco elongatus	136	3091
Scoletoma tenuis	20	455
Spiochaetopterus costarum	1	23
Streblospio benedicti	1	23
Arthropoda : Amphipoda		
Listriella barnardi	28	636
Arthropoda : Decapoda		
Ogyrides alphaerostris	1	23
Mollusca : Bivalvia		
Gemma gemma	9	205
Tagelus divisus	3	68
Mollusca : Gastropoda		
Acteocina canaliculata	1	23
Number of Taxa w/ Epi.	19	
Number of Taxa w/o Epi.	19	
Total Count w/ Epi.	304	
Total Count w/o Epi.	304	
Total Abundance w/ Epi.		6909
Total Abundance w/o Epi.		6909

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-45		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Clymenella torquata	9	205
Cossura sp. A Maciolek	2	45
Euclymene zonalis	12	273
Exogone dispar	3	68
Glycera americana	4	91
Glycinde solitaria	2	45
Mediomastus ambiseta	8	182
Mediomastus spp. *	51	1159
Melinna maculata	29	659
Notomastus sp. A Ewing	5	114
Parapriionospio pinnata	4	91
Podarkeopsis levifuscina	9	205
Sabaco elongatus	14	318
Scoletoma tenuis	1	23
Spiochaetopterus costarum	1	23
Streblospio benedicti	6	136
Arthropoda : Amphipoda		
Ampelisca abdita	1	23
Listriella barnardi	16	364
Arthropoda : Decapoda		
Ogyrides alphaerostris	1	23
Cnidaria : Anthozoa		
Edwardsia elegans	1	23
Echinodermata : Holothuroidea		
Leptosynapta tenuis	1	23
Mollusca : Bivalvia		
Aligena elevata	4	91
Mulinia lateralis	2	45
Solemya velum	1	23
Tagelus divisus	4	91
Tellina agilis	1	23
Mollusca : Gastropoda		
Acteocina canaliculata	13	295
Turbonilla spp. (Epi.)	14	318
Phoronida		
Phoronis spp.	1	23
Number of Taxa w/ Epi.	28	

NATIONAL COASTAL ASSESSMENT 2004
MARYLAND COASTAL BAYS
BENTHIC TAXA INFORMATION

(Station: MD04-45 Contd.)

TAXA	Count	Abundance (#/m2)
Number of Taxa w/o Epi.	27	
Total Count w/ Epi.	220	
Total Count w/o Epi.	206	
Total Abundance w/ Epi.		5000
Total Abundance w/o Epi.		4682

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-46

TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Cossura sp. A Maciolek	1	23
Dorvillea rudolphi	1	23
Eteone heteropoda	2	45
Exogone dispar	6	136
Glycera americana	1	23
Glycinde solitaria	1	23
Heteromastus filiformis	1	23
Leitoscoloplos robustus	3	68
Mediomastus ambiseta	20	455
Mediomastus spp. *	52	1182
Melinna maculata	1	23
Neanthes succinea	4	91
Notomastus sp. A Ewing	1	23
Parapriionospio pinnata	3	68
Pista cristata	1	23
Podarkeopsis levifuscina	2	45
Polydora cornuta	1	23
Sabaco elongatus	9	205
Scoletoma tenuis	21	477
Spiochaetopterus costarum	4	91
Streblospio benedicti	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	8	182
Listriella barnardi	14	318
Lysianopsis alba	1	23
Microdeutopus gryllotalpa (Epi.)	1	23
Monocorophium tuberculatum (Epi.)	3	68
Mollusca : Bivalvia		
Tagelus divisus	3	68
Tellina agilis	1	23
Mollusca : Gastropoda		
Turbanilla spp. (Epi.)	1	23
Nemertina		
Nemertina	1	23
Phoronida		
Phoronis spp.	1	23
Number of Taxa w/ Epi.	30	

NATIONAL COASTAL ASSESSMENT 2004
MARYLAND COASTAL BAYS
BENTHIC TAXA INFORMATION

(Station: MD04-46 Contd.)

TAXA	Count	Abundance (#/m2)
Number of Taxa w/o Epi.	27	
Total Count w/ Epi.	173	
Total Count w/o Epi.	168	
Total Abundance w/ Epi.		3932
Total Abundance w/o Epi.		3818

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-47		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	4	91
Annelida : Polychaeta		
Eteone foliosa	2	45
Eteone heteropoda	2	45
Glycinde solitaria	2	45
Heteromastus filiformis	1	23
Leitoscoloplos robustus	3	68
Mediomastus ambisetia	146	3318
Nereididae	1	23
Notomastus sp. A Ewing	1	23
Podarke obscura	3	68
Polydora cornuta	1	23
Sabaco elongatus	1	23
Scoletoma tenuis	17	386
Streblospio benedicti	17	386
Tharyx sp. A Morris	3	68
Arthropoda : Amphipoda		
Ampelisca abdita	13	295
Listriella barnardi	5	114
Arthropoda : Cumacea		
Leucon americanus	4	91
Arthropoda : Isopoda		
Edotea triloba (Epi.)	5	114
Cnidaria : Anthozoa		
Anthozoa	2	45
Mollusca : Bivalvia		
Gemma gemma	6	136
Mulinia lateralis	2	45
Tagelus divisus	22	500
Tellina agilis	13	295
Mollusca : Gastropoda		
Rictaxis punctostriatus	1	23
Turbonilla spp. (Epi.)	2	45
Platyhelminthes : Turbellaria		
Turbellaria (Epi.)	1	23
Number of Taxa w/ Epi.	27	
Number of Taxa w/o Epi.	24	

NATIONAL COASTAL ASSESSMENT 2004
MARYLAND COASTAL BAYS
BENTHIC TAXA INFORMATION

(Station: MD04-47 Contd.)

TAXA	Count	Abundance (#/m2)
Total Count w/ Epi.	280	
Total Count w/o Epi.	272	
Total Abundance w/ Epi.		6364
Total Abundance w/o Epi.		6182

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-48		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Tubificidae imm. with capilliform chaeta	6	136
Tubificidae imm. without capilliform cha	30	682
Annelida : Polychaeta		
Capitella capitata complex	1	23
Hobsonia florida	3	68
Laeonereis culveri	19	432
Arthropoda : Chironomidae		
Chironomidae pupae *	1	23
Chironomus spp.	1	23
Cryptochironomus spp.	1	23
Harnischia spp.	1	23
Polypedilum scalaenum group	2	45
Tribelos jucundus	2	45
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	10	
Total Count w/ Epi.	67	
Total Count w/o Epi.	67	
Total Abundance w/ Epi.		1523
Total Abundance w/o Epi.		1523

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-49

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	3	68
Annelida : Polychaeta		
Clymenella torquata	2	45
Cossura sp. A Maciolek	6	136
Exogone dispar	6	136
Glycera americana	1	23
Leitoscoloplos robustus	3	68
Mediomastus ambiseta	8	182
Mediomastus spp. *	25	568
Melinna maculata	15	341
Notomastus sp. A Ewing	9	205
Paraprionospio pinnata	8	182
Podarkeopsis levifuscina	2	45
Sabaco elongatus	2	45
Spiochaetopterus costarum	1	23
Streblospio benedicti	10	227
Arthropoda : Amphipoda		
Ampelisca abdita	3	68
Listriella barnardi	8	182
Echinodermata : Holothuroidea		
Leptosynapta tenuis	1	23
Mollusca : Bivalvia		
Aligena elevata	1	23
Solemya velum	3	68
Tagelus divisus	11	250
Tellina agilis	21	477
Mollusca : Gastropoda		
Acteocina canaliculata	2	45
Turbonilla spp. (Epi.)	5	114
Phoronida		
Phoronis spp.	6	136
Number of Taxa w/ Epi.	24	
Number of Taxa w/o Epi.	23	
Total Count w/ Epi.	162	
Total Count w/o Epi.	157	
Total Abundance w/ Epi.		3682
Total Abundance w/o Epi.		3568

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-50		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta Oligochaeta	1	23
Annelida : Polychaeta Brania wellfleetensis	2	45
Eteone foliosa	1	23
Eteone heteropoda	3	68
Heteromastus filiformis	3	68
Leitoscoloplos robustus	1	23
Microphthalmus aggregatus	15	341
Scoletoma tenuis	1	23
Tharyx sp. A Morris	22	500
Arthropoda : Isopoda Chiridotea caeca	9	205
Cnidaria : Anthozoa Edwardsia elegans	1	23
Mollusca : Bivalvia Gemma gemma	4	91
Tellina agilis	3	68
Nemertina Nemertina	5	114
Number of Taxa w/ Epi.	14	
Number of Taxa w/o Epi.	14	
Total Count w/ Epi.	71	
Total Count w/o Epi.	71	
Total Abundance w/ Epi.		1614
Total Abundance w/o Epi.		1614

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-51

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	15	341
Annelida : Polychaeta		
Cabira incerta	4	91
Carazziella hobsonae	8	182
Ceratonereis irritabilis	1	23
Clymenella torquata	11	250
Demonax microphthalmus	2	45
Diopatra cuprea	17	386
Euclymene zonalis	11	250
Eumida sanguinea	2	45
Exogone dispar	22	500
Glycera americana	3	68
Glycinde solitaria	6	136
Hydroides protulicola (Epi.)	1	23
Mediomastus ambiseta	31	705
Mediomastus spp. *	177	4023
Melinna maculata	24	545
Notomastus sp. A Ewing	1	23
Parapriionospio pinnata	1	23
Podarkeopsis levifuscina	4	91
Polydora cornuta	1	23
Sabaco elongatus	1	23
Scoletoma tenuis	1	23
Spiochaetopterus costarum	28	636
Arthropoda : Amphipoda		
Americhelidium americanum	6	136
Ameroculodes species complex	2	45
Ampelisca abdita	35	795
Ampelisca vadorum	2	45
Ampelisca verrilli	17	386
Cerapus tubularis (Epi.)	39	886
Eobrolgus spinosus	1	23
Ericthonius brasiliensis (Epi.)	8	182
Listriella barnardi	21	477
Monocorophium tuberculatum (Epi.)	7	159
Arthropoda : Cumacea		
Cyclaspis varians	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-51 Contd.)

TAXA	Count	Abundance (#/m2)
Leucon americanus	2	45
Arthropoda : Isopoda		
Cyathura burbancki	7	159
Edotea triloba (Epi.)	5	114
Cnidaria : Anthozoa		
Ceriantheopsis americanus	1	23
Edwardsia elegans	4	91
Echinodermata : Holothuroidea		
Leptosynapta tenuis	3	68
Pentamera pulcherrima	4	91
Mollusca : Bivalvia		
Macoma tenta	2	45
Mulinia lateralis	27	614
Solemya velum	4	91
Tagelus divisus	17	386
Mollusca : Gastropoda		
Acteocina canaliculata	57	1295
Gastropoda *	1	23
Nassarius vibex	1	23
Nudibranchia (Epi.)	1	23
Rictaxis punctostriatus	15	341
Turbonilla interrupta (Epi.)	5	114
Nemertina		
Nemertina	7	159
Phoronida		
Phoronis spp.	4	91
===== Number of Taxa w/ Epi.	51	
Number of Taxa w/o Epi.	44	
Total Count w/ Epi.	678	
Total Count w/o Epi.	611	
Total Abundance w/ Epi.		15409
Total Abundance w/o Epi.		13886
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* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-52		
TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Glycera americana	2	45
Glycinde solitaria	1	23
Mediomastus ambiseta	110	2500
Scolelepis texana	1	23
Tharyx sp. A Morris	4	91
Arthropoda : Amphipoda		
Ampelisca abdita	8	182
Ampelisca spp. *	2	45
Ampelisca verrilli	16	364
Cerapus tubularis (Epi.)	1	23
Listriella barnardi	5	114
Rhepoxynius hudsoni	2	45
Cnidaria : Anthozoa		
Anthozoa	2	45
Echinodermata : Holothuroidea		
Leptosynapta tenuis	8	182
Mollusca : Bivalvia		
Mulinia lateralis	59	1341
Tagelus divisus	2	45
Mollusca : Gastropoda		
Acteocina canaliculata	7	159
Rictaxis punctostriatus	5	114
Nemertina		
Nemertina	1	23
Phoronida		
Phoronis spp.	1	23
Number of Taxa w/ Epi.	18	
Number of Taxa w/o Epi.	17	
Total Count w/ Epi.	237	
Total Count w/o Epi.	236	
Total Abundance w/ Epi.		5386
Total Abundance w/o Epi.		5364

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-53

TAXA	Count	Abundance (#/m2)
Annelida : Polychaeta		
Cabira incerta	1	23
Ceratonereis irritabilis	1	23
Euclymene zonalis	1	23
Glycinde solitaria	9	205
Mediomastus spp.	122	2773
Melinna maculata	8	182
Notomastus sp. A Ewing	2	45
Paraprionospio pinnata	15	341
Sabaco elongatus	1	23
Scolelepis bousfieldi	1	23
Scoletoma tenuis	6	136
Arthropoda : Amphipoda		
Ampelisca abdita	5	114
Ampelisca verrilli	1	23
Batea catharinensis (Epi.)	1	23
Cerapus tubularis (Epi.)	3	68
Ericthonius brasiliensis (Epi.)	3	68
Listriella barnardi	9	205
Arthropoda : Cumacea		
Leucon americanus	4	91
Cnidaria : Anthozoa		
Edwardsia elegans	1	23
Mollusca : Bivalvia		
Mulinia lateralis	9	205
Tagelus divisus	3	68
Mollusca : Gastropoda		
Acteocina canaliculata	9	205
Turbonilla spp. (Epi.)	2	45
Nemertina		
Amphiporus bioculatus	2	45
Number of Taxa w/ Epi.	24	
Number of Taxa w/o Epi.	20	
Total Count w/ Epi.	219	
Total Count w/o Epi.	210	
Total Abundance w/ Epi.		4977
Total Abundance w/o Epi.		4773

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-54

TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Oligochaeta	6	136
Annelida : Polychaeta		
Aricidea catherinae	7	159
Clymenella torquata	2	45
Euclymene zonalis	11	250
Eumida sanguinea	7	159
Exogone dispar	20	455
Glycinde solitaria	8	182
Mediomastus ambisetosa	17	386
Mediomastus californiensis	12	273
Mediomastus spp. *	163	3705
Odontosyllis fulgurans (Epi.)	1	23
Paranaitis speciosa	1	23
Parapionosyllis longicirrata	62	1409
Pista palmata	3	68
Podarke obscura	1	23
Polycirrus eximius	56	1273
Sabaco elongatus	1	23
Scolelepis bousfieldi	7	159
Sphaerosyllis brevidentata	2	45
Sphaerosyllis erinaceus	1	23
Spiochaetopterus costarum	2	45
Streptosyllis spp.	1	23
Tharyx sp. A Morris	5	114
Arthropoda : Amphipoda		
Ampelisca abdita	11	250
Ampelisca vadorum	3	68
Ampelisca verrilli	22	500
Batea catharinensis (Epi.)	17	386
Cerapus tubularis (Epi.)	1	23
Elasmopus laevis (Epi.)	1	23
Eobrolgus spinosus	7	159
Globosolembos smithi (Epi.)	1	23
Monocorophium tuberculatum (Epi.)	2	45
Paracaprella tenuis (Epi.)	1	23
Unciola serrata	1	23

Continued . . .

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

(Station: MD04-54 Contd.)

TAXA	Count	Abundance (#/m2)
Arthropoda : Cumacea		
Oxyurostylis smithi	1	23
Cnidaria : Anthozoa		
Anthozoa	1	23
Echinodermata : Holothuroidea		
Pentamera pulcherrima	12	273
Mollusca : Bivalvia		
Anomia simplex (Epi.)	3	68
Leptonidae	4	91
Lyonsia hyalina	3	68
Mercenaria mercenaria	4	91
Mulinia lateralis	2	45
Pitar morrhuanus	1	23
Tagelus divisus	26	591
Mollusca : Gastropoda		
Acteocina canaliculata	10	227
Crepidula fornicata (Epi.)	13	295
Melanella spp. (Epi.)	1	23
Nassarius vibex	1	23
Odostomia engonia (Epi.)	1	23
Rictaxis punctostriatus	13	295
Nemertina		
Amphiporus bioculatus	2	45
Phoronida		
Phoronis spp.	1	23
=====	=====	=====
Number of Taxa w/ Epi.	51	
Number of Taxa w/o Epi.	40	
Total Count w/ Epi.	562	
Total Count w/o Epi.	520	
Total Abundance w/ Epi.		12773
Total Abundance w/o Epi.		11818

* Indicates taxa skipped in taxa counts

NATIONAL COASTAL ASSESSMENT 2004
 MARYLAND COASTAL BAYS
 BENTHIC TAXA INFORMATION

STATION : MD04-55		
TAXA	Count	Abundance (#/m2)
Annelida : Oligochaeta		
Tubificidae imm. without capilliform cha	18	409
Annelida : Polychaeta		
Heteromastus filiformis	2	45
Hobsonia florida	2	45
Laeonereis culveri	6	136
Arthropoda : Chironomidae		
Chironomidae pupae	3	68
Chironomus spp.	72	1636
Arthropoda : Isopoda		
Edotea triloba (Epi.)	5	114
Nemertina		
Nemertina	3	68
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	7	
Total Count w/ Epi.	111	
Total Count w/o Epi.	106	
Total Abundance w/ Epi.		2523
Total Abundance w/o Epi.		2409